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FOURTH AVENUE GAMBELL, LLC  
EXHIBIT UU

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1460697

# BGES, INC.

**Environmental Consultants**



**FOURTH AVENUE AND GAMBELL STREET  
ANCHORAGE, ALASKA**

**PHASE II ENVIRONMENTAL SITE ASSESSMENT**

**MAY 2005**

**Submitted to:** PAUL MANEY

**Submitted by:** BGES, INC.

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## 1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by Mr. Paul Maney, owner of the subject property, located between Gambell and Hyder Street and along 4<sup>th</sup> Avenue (Figure 1), to perform a Phase II Environmental Site Assessment (ESA). The Phase II ESA entailed advancement of three soil borings and installation of monitoring wells in these borings along with associated soil and groundwater sampling. The purpose of this sampling was to assess the soil and groundwater quality at the subject site. The fieldwork was performed on March 12<sup>th</sup> and 13<sup>th</sup> (soil borings and monitoring well installations), and April 6, 2005 (groundwater sampling), in accordance with our work plan dated February 16, 2005, and approved by the Alaska Department of Environmental Conservation (ADEC) on February 28, 2005.

## 2.0 BACKGROUND

The property is located in the downtown (northern) portion of Anchorage, Alaska (Figure 1). The site is currently undeveloped and used as a parking lot for the Anchorage Job Center. The surface at the property is unpaved and generally level. An Alaska Communications System antenna tower is situated on the southeast portion of the property. The property was formerly occupied by a variety of businesses, including C&K Cleaners (which may have been a drycleaners) from approximately 1968 through 1970, and NC Tire Center, which was the last occupant of the building on site. Figure 2 shows the layout of the subject property.

## 3.0 PREVIOUS SITE WORK

A Phase I ESA was conducted at the subject property in 1993. The findings of the Phase I ESA indicated that underground storage tanks (USTs) were thought to exist at locations in the northeast corner of the property [where we did subsequently encounter USTs as described in our September 2004 Phase II Environmental Site Assessment (ESA) Report], and in the north-central portion of the property, where USTs were not encountered during our subsurface assessment.

A Phase II ESA was reportedly conducted approximately 6 years ago, but the results have not been made available to the current property owner, Paul Maney. It is Mr. Maney's understanding that several USTs were removed and at least one monitoring well was installed. A Phase II ESA was conducted by BGES during the summer of 2004. This site assessment included excavation of six exploratory test pits with associated soil sampling and removal of five hydraulic lifts and two associated hydraulic USTs and two heating oil USTs. A relatively small volume of soils with hydrocarbon concentrations exceeding ADEC cleanup criteria was encountered and removed from the site for treatment and disposal, during removal of the hydraulic lifts and associated USTs. The test pit excavations revealed numerous soil samples with tetrachloroethene (PCE) concentrations

exceeding the ADEC cleanup criterion. In addition, during this assessment, BGES observed an existing monitoring well at the property (Figure 2). This monitoring well, named MW-1, was sampled on October 22, 2004. The groundwater sample exceeded the ADEC cleanup criterion for PCE by four orders of magnitude. Based on the results of the soil and groundwater sampling, and a meeting with the ADEC, it was decided that additional investigation was needed including a well survey; this work is the subject of this report as described below.

#### **4.0 MARCH AND APRIL 2005 PHASE II ESA FIELD WORK**

As stated in the approved Work Plan, three soil borings were advanced and completed as monitoring wells. Soil samples were collected during drilling and the monitoring wells were developed and sampled. Top of casing elevations were measured relative to each other and a local surface elevation. A water well survey was performed to identify potential groundwater users in the vicinity of the site. The following paragraphs discuss the results of the Phase II ESA.

##### **4.1 Modifications to the Work Plan**

Based on the results of the first soil boring (MW-2), it was decided that sampling would occur on 5-foot intervals from the surface to 18 feet below grade (where the contaminant concentrations appeared to be the greatest), and then continuously to the total depth of the borings.

##### **4.2 Soil Borings and Sampling**

A utility clearance for the areas of the soil borings was performed on March 11, 2005. Three soil borings were advanced on March 12 and 13, 2005, using hollow-stem auger drilling technology in the approximate locations shown on Figure 2. Two of the soil borings (MW-2 and MW-3) were advanced to a depth of approximately 45 feet below grade (bg), and one soil boring (MW-4) was advanced to approximately 50 feet bg. Photographs 1 through 3 in Appendix A show the borings being advanced and/or the monitoring wells being completed. The borings were terminated when a clay layer was reached (Photograph 4 in Appendix A) to prevent creating vertical migration pathways to a potential deeper aquifer. Continuous drive split-spoon samples were collected for the entire depth of MW-2 (beginning at 2 feet bg), and at 5-foot intervals until 18 feet bg in MW-3 and MW-4 and then continuously thereafter. The samples were logged with geologic descriptions and a portion of the soil from each split-spoon sample was placed in Ziploc® bags for headspace field screening using a Photoionization Detector (PID). The soil in the split-spoons was typically also screened directly in the spoon (except during periods of moderate to heavy precipitation).

In general, the soil borings indicated the presence of sand and gravel until a clay layer was

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encountered near the base of the borings. Groundwater was encountered at about 41 feet bg in MW-2 and MW-3, and at about 45 feet bg in MW-4. Geologic logs describing the soil samples are included in Appendix B. Soils from the boreholes were placed in drums and stored on site for future disposal (Photograph 5 in Appendix A).

The soil samples that were selected for laboratory analysis, based on the field screening as described below, were placed in laboratory-supplied containers, which were stored in a chilled cooler, until they were hand-delivered under chain of custody protocol to SGS Environmental Services in Anchorage for analysis. As a quality control measure, a trip blank prepared by the laboratory accompanied the samples during the entire sampling and handling process.

#### **4.3 Soil Screening and Analysis**

The soils that were placed in Ziploc® bags were allowed to warm for up to 1 hour inside a vehicle with a heater, prior to being screened using a Thermo Environmental Instruments 580 EZ PID. The PID was calibrated prior to use with isobutylene calibration gas. After warming, the bags were agitated for approximately 15 seconds, and then the tip of the PID was inserted into the headspace of the bags. The greatest PID reading was recorded for each sample. The results of the PID screening are presented in Table 1 and included on the geologic logs in Appendix B.

It should be noted that none of the borings exhibited any hydrocarbon odors during drilling. The PID readings in the soil samples that were screened from the boreholes ranged from 0 to 69.1 parts per million (ppm). Generally, the samples with the greatest PID readings from each borehole were submitted for laboratory analysis of volatile organic compounds (VOCs) by SW8260B. Samples S-9, collected from MW-2 at 18 to 20 feet bg; S-14, collected from MW-2 at 28 to 30 feet bg; S-19, collected from MW-2 at 38 to 40 feet bg; S-5, collected from MW-3 at 20-22 feet bg; S-11, collected from MW-3 at 32 to 34 feet bg; S-18, collected from MW-3 at 46 to 48 feet bg; S-4, collected from MW-4 at 18 to 20 feet bg; and S-13, collected from MW-4 at 36 to 38 feet bg were submitted for laboratory analysis.

#### **4.4 Monitoring Well Installation**

All three of the soil borings described above were completed as monitoring wells, with 2-inch diameter polyvinyl chloride (PVC) casings and 20-slot PVC well screens, constructed in the three augered soil borings. The well screens were 10 feet long and placed in such a manner as to approximately bisect the water table at the time of drilling. The sand pack surrounding the casings was composed of No. 8/12 Colorado filter sand. The filter sand extended approximately 1.5 to 2 feet

above the top of the well screen. A seal was constructed using bentonite pellets above the filter sand. The monitoring wells were completed with a "flush-grade" construction with a vault box sealed in place with an asphalt patch. Well construction details are included in Appendix B.

#### 4.5 Monitoring Well Development

The monitoring wells were developed on April 6, 2005 (MW-2, MW-3, and MW-4) using a disposable, polyethylene bailer (MW-1 was installed previously and presumed to have been developed in the past). The water column in the wells was agitated to suspend as much sediment as possible in the water, which was then removed and placed into a 5-gallon bucket and then transferred to a 55-gallon drum. The drum was stored on site pending the results of the water analyses. Approximately 5 gallons of water were removed from each well, at which time the discharge had slightly less sediment. Because of the volume of sediment still present, the wells were allowed to sit for approximately 30 minutes prior to sampling. The wells exhibited a low to moderate recovery speed during development and sampling.

#### 4.6 Water Elevation Measurements

Prior to monitoring well development and sampling on April 6, 2005, the depths to water in the wells were measured using an electronic water level indicator. The water elevations and groundwater contours are shown on Figure 2. Based on information from this groundwater monitoring, the local groundwater flow direction is to the northeast at a gradient of approximately 0.01 foot per linear foot. The water levels measured in the wells on April 6 were approximately 1.5 to 3.5 feet higher than at the time of drilling for MW-2 and MW-3, and approximately 7 feet higher than at the time of drilling in MW-4. For this reason, the water level in MW-4 was actually higher than the top of the screen at the time of sampling. The depth to water in MW-1 was approximately 0.13 foot lower than the depth to water measured during the October, 2005 monitoring of this well.

#### 4.7 Monitoring Well Sampling

The monitoring wells were sampled on April 6, 2005. The volume of water in each well was calculated based on the water elevation and total well depth measurements described above. MW-1 was purged of three well volumes. The remaining wells (MW-2, MW-3, and MW-4) were each purged of more than three well volumes, as part of the development process. Prior to sampling, measurements of pH, conductivity, turbidity, dissolved oxygen, temperature, salinity, total dissolved solids, and oxidation-reduction potential (ORP) were made by placing a bailed sample into a container and utilizing a Horiba U22 water quality meter. These field water quality parameters are

summarized in Appendix C. Only one or two field water quality measurements were made for MW-2, MW-3, and MW-4 since the sampling followed well development, when considerably more than three well volumes were removed, and because of the increased sediment load.

A disposable, polyethylene bailer was used to develop/purge and sample each well. The samples were collected by carefully filling three, 40-milliliter amber vials preserved with hydrochloric acid (HCL) and inspecting them to make sure that no air bubbles were present. As a quality control measure, a trip blank prepared by the laboratory accompanied the jars scheduled for volatile analyses during the entire transportation and sampling process. The samples were hand-delivered in a chilled cooler under chain of custody protocol to SGS Laboratory in Anchorage.

#### 4.8 Monitoring Well Surveying

The ground surface and Top of Casing (TOC) elevation of each of the monitoring wells were surveyed relative to each other and to a fixed reference point. The top-of-casing elevations were surveyed by BGES personnel to the nearest 0.01 foot.

### 5.0 EVALUATION OF LABORATORY DATA

The analytical results for the Phase II ESA soil samples are listed in Table 2, and the groundwater sample results are listed in Table 3 and shown on Figure 2, and are compared to the ADEC Method 2 Cleanup Criterion listed in 18AAC 75.341 - Table B2 for soils [30 micrograms per kilogram ( $\mu\text{g}/\text{Kg}$ ) for PCE and the 18AAC75.345 - Table C cleanup criterion for water [5 micrograms per liter ( $\mu\text{g}/\text{L}$ ) for PCE]. Copies of the analytical reports are included in Appendix D.

The soil samples from all three soil borings were analyzed for volatile organic compounds (VOCs) and had PCE concentrations that exceeded the ADEC cleanup criterion, with values ranging from 542 to 79,500  $\mu\text{g}/\text{kg}$ . These soil sample analytical results indicate that PCE contamination in the soil is both aerially and vertically extensive. The greatest PCE concentrations appear to be located between 18 feet bg and the water table (approximately 40 feet bg). The only other parameters that were detected in the soil samples were 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene detected in MW-2. These compounds are used as solvents and in dyes and paint thinners. The lack of detection of "daughter" compounds associated with PCE (trichloroethene, dichloroethene, vinyl chloride) indicates that biological degradation of the contaminants is not occurring at a significant rate.

The groundwater samples were analyzed for VOCs and exhibited PCE concentrations ranging from 70.7  $\mu\text{g}/\text{L}$  in MW-2 to 1,790  $\mu\text{g}/\text{L}$  in MW-3, which all exceed the ADEC cleanup criterion of 5  $\mu\text{g}/\text{L}$ . It should be noted that MW-4, which is located somewhat upgradient of the majority of the site, also

contained PCE above the ADEC cleanup criterion ( $5 \mu\text{g}/\text{L}$ ) with a concentration of  $372 \mu\text{g}/\text{L}$ . No other VOCs were detected in the groundwater samples.

## 6.0 QUALITY CONTROL

The soil trip blank sample had non-detectable concentrations of all analytes; therefore, cross-contamination of samples is not likely to have occurred. In addition, the soil method blank had non-detectable concentrations of all analytes. The case narrative for the soil samples indicated several matrix spike samples and laboratory check samples that did not meet quality control criteria, however, these samples were not associated with any analytes that were detected above the practical quantitation limit (PQL), and therefore, the data are not considered to have been adversely affected.

The water trip blank had non-detectable concentrations of all analytes; therefore, cross-contamination of samples is not likely to have occurred. The water method blank had non-detectable concentrations of all analytes except for estimated concentrations (values were between the PQL and the method detection limit) of 1,2,4, trichlorobenzene and 1,2,3 trichlorobenzene. However, the associated parameters were not detected in the soil samples at concentrations exceeding the PQL; therefore, the validity of the data is not considered to be adversely affected.

The case narrative for the soil samples indicated several quality control samples with a limited number of analytes that were out of quality control criteria. However, most of the associated parameters were not detected in the soil samples at concentrations exceeding the PQL; therefore, the validity of the data is not considered to be adversely affected. The continuing calibration verification sample for dichlorodifluoromethane was biased low and did not meet the laboratory quality control criterion. Therefore, the PQL for this parameter in associated samples should be considered an estimated value.

## 7.0 WATER WELL SURVEY

A water well survey was conducted for a  $\frac{1}{4}$ -mile search radius from the subject property. The United States Geological Survey and Alaska Department of Natural Resources databases were reviewed. The Alaska Department of Environmental Conservation database does not store information about private wells, but an inquiry to the agency revealed that there are no public water supply systems within  $\frac{1}{4}$  of the subject property. Furthermore, the Municipality of Anchorage Water Well database was reviewed but no wells were found. The following water supply wells were located during our search:

Well Number	Date of Well Construction	Depth of Well (feet)
SBC1300318AACD1 007	7/11/61	49.5
SBC1300318ADAB1 006	8/2/48	57.0
SBC1300318ADAB2 006	8/1/48	20
SBC1300318ADAB3 006	1/1/52	139
SBC1300318ADBD1 001	10/1/53	227

Information concerning these wells is included in Appendix E and shown on Figure 3. In addition, residents at 710 and 720 East Third Avenue, located across the alley to the north of the subject property, were questioned regarding the presence of water supply wells on their property. No wells were identified by these persons. Furthermore, we conducted a "drive-by" reconnaissance of these properties, as well as the properties identified in the table above as potentially having water supply wells. No wells were observed during this reconnaissance.

## 8.0 DISPOSAL OF INVESTIGATIVE DERIVED WASTES

As a result of the soil boring and monitoring well drilling and sampling activities, eight full drums of soil and one drum of water (approximately  $\frac{1}{4}$  full) were generated. These drums were disposed of by Emerald Alaska as hazardous waste. Copies of the manifest and disposal documentation are included in Appendix F.

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

Three soil borings were advanced in the approximate locations shown on Figure 2, and all three were completed as monitoring wells. Soil samples and groundwater samples were collected and analyzed for VOCs. The soil and water samples exhibited PCE concentrations that are several orders of magnitude greater than ADEC cleanup standards. The lack of "daughter" constituents associated with PCE in the laboratory analyses indicates that biodegradation of the contaminant is not occurring at a significant rate. This may be the case because of the generally coarse grained nature of the soils which would allow oxygen to permeate to the subsurface, and the fact that biodegradation of PCE typically occurs under anaerobic conditions.

At this time, the aerial extent of PCE contamination at this site has not been defined. In addition, the

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presence of PCE in shallow soils (less than about 12 feet bg) has not been determined, although the shallow soils generally had lower PID readings. It is recommended that shallow soil samples be collected using a hand auger (if practical – this may be difficult because of the hard packed surface at the site) in the vicinity of the existing monitoring wells, and analyzed for PCE. The samples should be collected at about 4 to 6 feet bg. In addition, it is recommended that the monitoring wells be sampled on a quarterly basis for one year to evaluate groundwater quality trends. After this time, the need for continued groundwater monitoring can be reevaluated. Furthermore, it is recommended that the monitoring well elevations be resurveyed because of TOC modifications that were necessary to close the protective casings. As a result of the drilling and sampling activities, eight drums of soil cuttings and 1 drum of water were generated and disposed of as hazardous wastes.

A water well survey was conducted for the area within  $\frac{1}{4}$  mile of the subject property. Five water supply wells were located in the databases. These wells were not observed during a "drive-by" reconnaissance. No other wells were identified in the area that was searched.

It is recommended that a copy of this report be provided to the ADEC for their review.

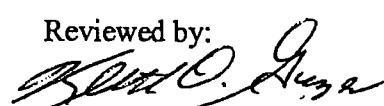
#### 10.0 EXCLUSIONS AND CONSIDERATIONS

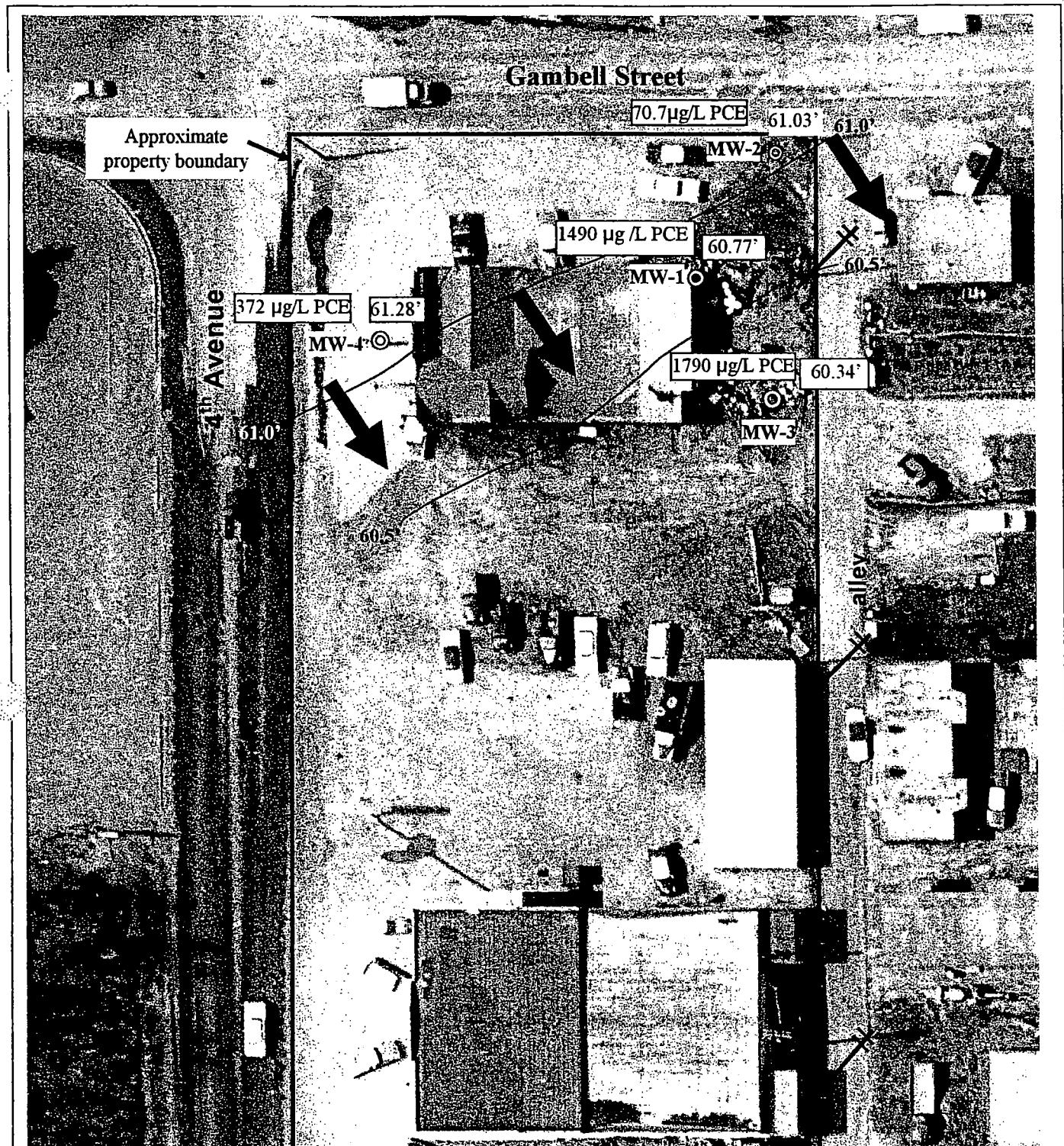
This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Our conclusions and recommendations are based on our observations and the results of our research, and as such, rely on the accuracy of the reports and other correspondences that were reviewed. In addition, changes to site conditions may have occurred since we completed our initial project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

Prepared by:

  
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Principal Geologist

Reviewed by:

  
Keith O. Guyer, R.G.  
Principal Geologist



372 µg/L PCE 61.28'

MW-4 (◎) = Monitoring Well 4 location: tetrachloroethene concentration of 372 micrograms per liter; depth to water of 61.28 feet measured on April 6, 2005

= Approximate groundwater flow direction

Source: AeroMap U.S. Scale: 1inch = 50 feet  
May 14, 1960 Aerial Photograph

FOURTH AVENUE AND GAMBELL STREET  
SITE PLAN/GROUNDWATER ELEVATION  
CONTOURS

BGES, INC.

May 2005

Figure 2



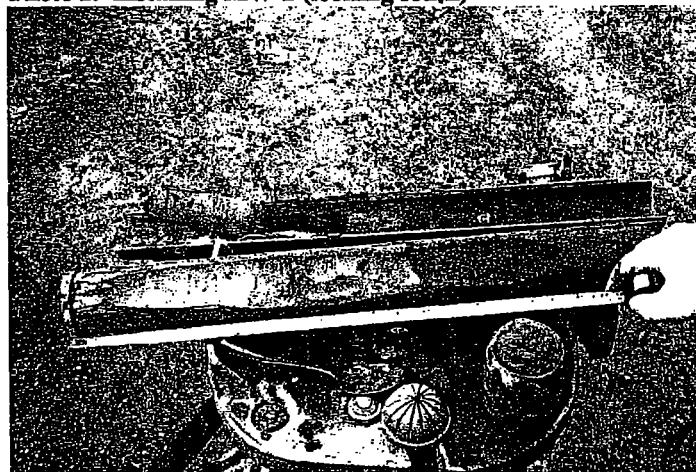
**Photo 1. Advancing Boring MW-2 (looking south)**



**Photo 2. Installing MW-2 (looking south)**



**Photo 3. Advancing Boring MW-4 (looking southeast)**



**Photo 4. Sand/Clay Contact in Sample S-22 from MW-2**



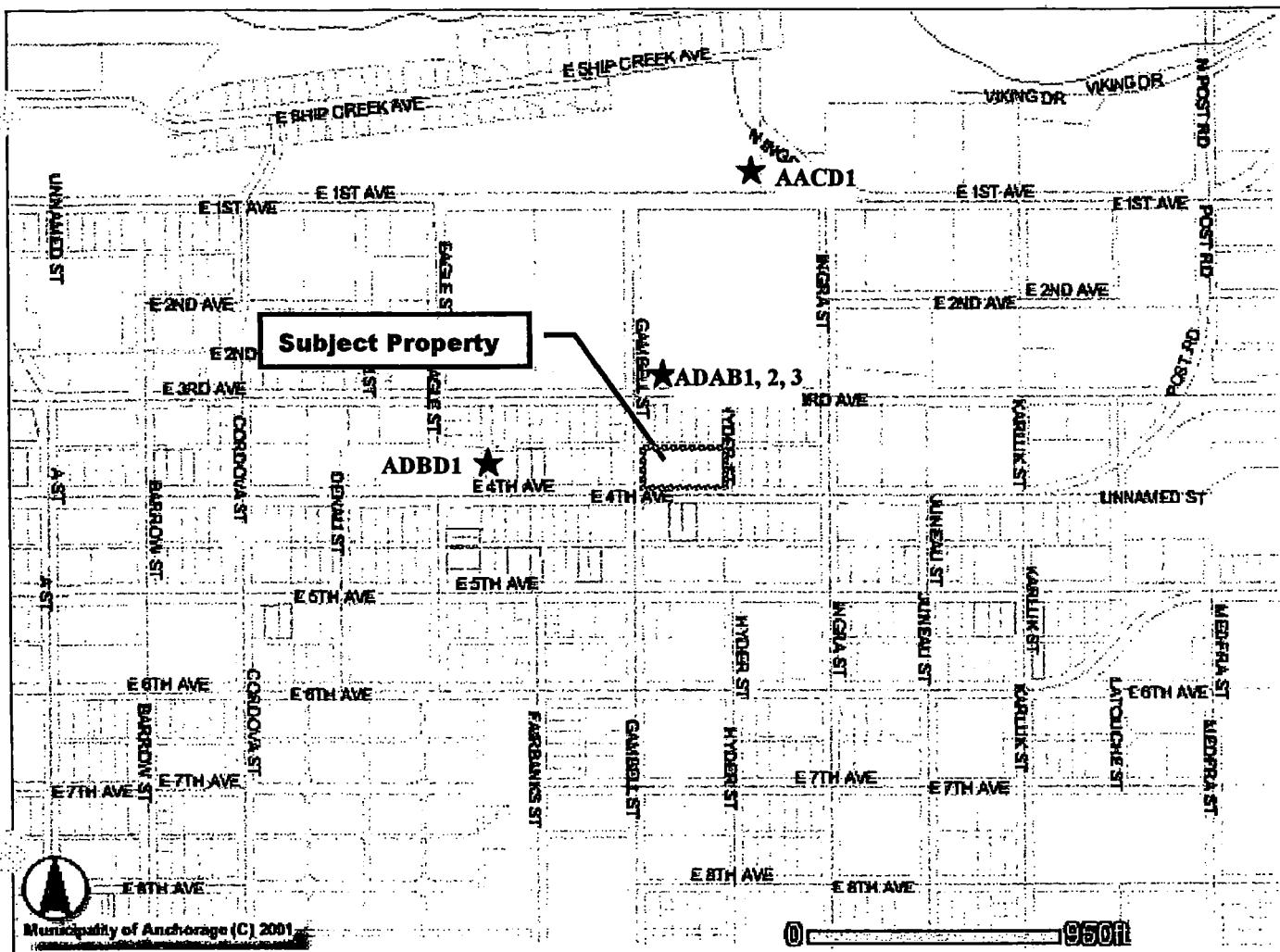
**Photo 5. Placing Drums in Storage Area**

**Fourth Avenue And Gambell Street  
Property Photographs**

**BGES, INC.**

**May 2005**

**Figure A-1**



★ = Water Well

Local Well Number	Date Well Constructed	Depth of well (feet)
SBC1300318AACD1	07-11-61	49.5
SBC1300318ADAB1	08-02-48	57.0
SBC1300318ADAB2	08-01-48	20
SBC1300318ADAB3	01-01-52	139
SBC1300318ADBD1	10-01-53	227

Source: U.S. Geological Survey-Water Resources Department



**FOURTH AVENUE AND GAMBELL STREET  
Water Well Survey**

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May 2005

Figure 3

**TABLE 1**  
**FOURTH AVENUE AND GAMBELL STREET**  
**SOIL SAMPLES**  
**PHOTOIONIZATION DETECTOR READINGS**

Bore	Sample Depth (feet bg)	PID Reading in Spoon (ppm)	PID Headspace Reading (ppm)	PCE (µg/Kg)	Description
MW-2	N/A	0 to 2	N/A	N/A	Sand and gravel
	S-1	2 to 4	0	0.5	Coarse grained sand and gravel
	S-2	4 to 6	0	8.2	Very fine to fine grained sand and gravel
	S-3	6 to 8	0	11.8	Medium to coarse grained sand and gravel
	S-4	8 to 10	0	6.1	Fine to coarse grained sand, slightly silty, and gravel
	S-5	10 to 12	0	16.2	Medium grained sand and gravel
	S-6	12 to 14	0	11.4	Fine to coarse grained sand, some gravel
	S-7	14 to 16	0	9.6	Coarse grained sand, trace gravel
	S-8	16 to 18	0	6.1	Fine to coarse grained sand and gravel
Lab	S-9	18 to 20	2.3	57.2	Medium to coarse grained sand and gravel
	S-10	20 to 22	0	6.0	Fine to coarse grained sand, trace gravel
	S-11	22 to 24	0	11.5	Medium grained sand, trace gravel
	S-12	24 to 26	0	4.2	Gravel and coarse grained sand
	S-13	26 to 28	0	11.5	Coarse grained sand, trace gravel
Lab	S-14	28 to 30	0	115	Medium to coarse grained sand, 3-inch peat layer
	S-15	30 to 32	12.7	38.4	Fine to coarse grained sand
	S-16	32 to 34	0.8	6.1	Fine to medium grained sand
	S-17	34 to 36	0.9	20	Fine grained sand
Lab	S-18	36 to 38	0	40	Medium to coarse grained sand, trace clay
	S-19	38 to 40	0	69.1	Coarse grained sand
	S-20	40 to 42	0	47.9	Medium grained sand, saturated
	S-21	42 to 44	0	49.0	Very fine grained sand, slightly silty, saturated
	S-22	44 to 46	0	65.4	Coarse grained sand, saturated and clay
MW-3	N/A	0 to 5	N/A	N/A	Very fine grained sand, very silty, some gravel
	S-1	5 to 7	N/A	1.2	Medium to coarse grained sand and gravel
	N/A	7 to 10	N/A	N/A	Sand and gravel
	S-2	10 to 12	N/A	4.8	Coarse grained sand and gravel
	N/A	12 to 15	N/A	N/A	Sand and gravel
	S-3	15 to 17	N/A	7.0	Fine to coarse grained sand and gravel
	N/A	17 to 18	N/A	N/A	Sand and gravel
	S-4	18 to 20	N/A	3.7	N/A
Lab	S-5	20 to 22	N/A	10.1	Very fine to coarse grained sand and gravel
	S-6	22 to 24	N/A	3.8	Medium to coarse grained sand and gravel
	S-7	24 to 26	N/A	6.8	Fine to medium grained sand and gravel
	S-8	26 to 28	N/A	16.0	Medium to coarse grained sand, some gravel
	S-9	28 to 30	N/A	11.4	Fine grained sand, some gravel
	S-10	30 to 32	N/A	6.3	Medium to coarse grained sand, trace gravel
Lab	S-11	32 to 34	N/A	16.0	Fine to coarse grained sand, some gravel
	S-12	34 to 36	N/A	5.5	Very fine to medium grained sand
	S-13	36 to 38	N/A	11.3	Medium grained sand
	S-14	38 to 40	N/A	3.8	Medium grained sand, moist
	S-15	40 to 42	N/A	6.6	Medium grained sand, saturated
	S-16	42 to 44	N/A	0.0	Fine to medium grained sand, trace gravel, saturated
	S-17	44 to 46	N/A	0.0	Medium grained sand, saturated
Lab	S-18	46 to 48	N/A	7.1	Very fine to fine grained sand, saturated, and clay
MW-4	N/A	0 to 5	N/A	N/A	Sand and gravel
	S-1	5 to 7	N/A	0.0	Fine to coarse grained sand, some clay
	N/A	7 to 10	N/A	N/A	Sand and gravel
	S-2	10 to 12	N/A	2.8	Very fine to coarse grained sand, silty, and gravel
	N/A	12 to 15	N/A	N/A	Sand and gravel
	S-3	15 to 17	N/A	0.2	Coarse grained sand and gravel
	N/A	17 to 18	N/A	N/A	Sand and gravel
Lab	S-4	18 to 20	N/A	55.9	Coarse grained sand and gravel
	S-5	20 to 22	N/A	0.0	Coarse grained sand and gravel
	S-6	22 to 24	N/A	16.4	Fine to coarse grained sand and gravel
	S-7	24 to 26	N/A	17.1	Fine to medium grained sand and gravel
	S-8	26 to 28	N/A	9.3	Coarse grained sand and gravel
	S-9	28 to 30	N/A	0.0	Coarse grained sand, slightly silty, some gravel
	S-10	30 to 32	N/A	0.0	Coarse grained sand, some gravel
	S-11	32 to 34	N/A	1.1	Medium grained sand
	S-12	34 to 36	N/A	0.0	Very fine to coarse grained sand
Lab	S-13	36 to 38	N/A	3.7	Fine grained sand, moist
	S-14	38 to 40	N/A	0.0	Fine grained sand, moist
	S-15	40 to 42	N/A	0.0	Very fine to coarse grained sand, slightly silty, saturated
	S-16	42 to 44	N/A	0.0	Very fine grained sand, saturated
	S-17	44 to 46	N/A	0.0	Very fine grained sand, silty, saturated
	S-18	46 to 48	N/A	0.0	Medium grained sand, saturated, and clay

bg = Below Grade; PID = Photoionization Detector; ppm = Parts Per Million; N/A = Not Applicable; µg/Kg = micrograms per kilogram

Lab = sample submitted to laboratory PCE = Tetrachloroethene

Note: PID used was Thermo Environmental Instruments 580 EZ; Where screening was not performed in spoon was because of rainy conditions

**TABLE 2**  
**FOURTH AVENUE AND GAMBELL STREET**  
**SOIL SAMPLES**  
**LABORATORY ANALYTICAL RESULTS**

BGES, INC.

Soil Sample No.	Sample Depth (feet bg)	Parameter	Results ( $\mu\text{g}/\text{Kg}$ )	PQL ( $\mu\text{g}/\text{Kg}$ )	Analytical Method	ADEC Soil Cleanup level ( $\mu\text{g}/\text{Kg}$ )
MW-2 S-9	18-20	Tetrachloroethene	29,700	577	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-2 S-14	28-30	Tetrachloroethene	79,500	1,350	SW8260B	30 <sup>2</sup>
		1,3,5-Trimethylbenzene	38.0	27.0	SW8260B	NE
		1,2,4-Trimethylbenzene	32.6	27.0	SW8260B	NE
		All other VOCs	ND	Varies	SW8260B	Varies
MW-2 S-19	38-40	Tetrachloroethene	542	16.2	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-3 S-5	20-22	Tetrachloroethene	3,590	126	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-3 S-11	32-34	Tetrachloroethene	5,210	201	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-3 S-18	46-48	Tetrachloroethene	3,190	170	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-4 S-4	18-20	Tetrachloroethene	11,100	359	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies
MW-4 S-13	36-38	Tetrachloroethene	2,130	22.6	SW8260B	30 <sup>2</sup>
		All other VOCs	ND	Varies	SW8260B	Varies

<sup>1</sup> Only parameters listed have results greater than PQL

<sup>2</sup> Soil cleanup criteria from Alaska Department of Environmental Conservation (ADEC) 18AAC 75.341, Table B1

**Border** = Concentration exceeds corresponding ADEC cleanup criterion

bg = below grade

NE = Not Established

$\mu\text{g}/\text{Kg}$  = Micrograms per Kilogram

PQL = Practical Quantitation Limit

ND = Non-Detectable

**TABLE 3**  
**FOURTH AVENUE AND GAMBELL STREET**  
**GROUNDWATER SAMPLES**  
**LABORATORY ANALYTICAL RESULTS**

Sample Name	Parameter	Results ( $\mu\text{g/L}$ )	Analytical Method	Method Two Groundwater Cleanup Level ( $\mu\text{g/L}$ ) <sup>2</sup>
MW-1	PCE	1490	SW8260B	5
MW-2	PCE	70.7	SW8260B	5
MW-3	PCE	1790	SW8260B	5
MW-4	PCE	372	SW8260B	5

<sup>1</sup> = All other Volatile Organic Compounds were Non-Detectable

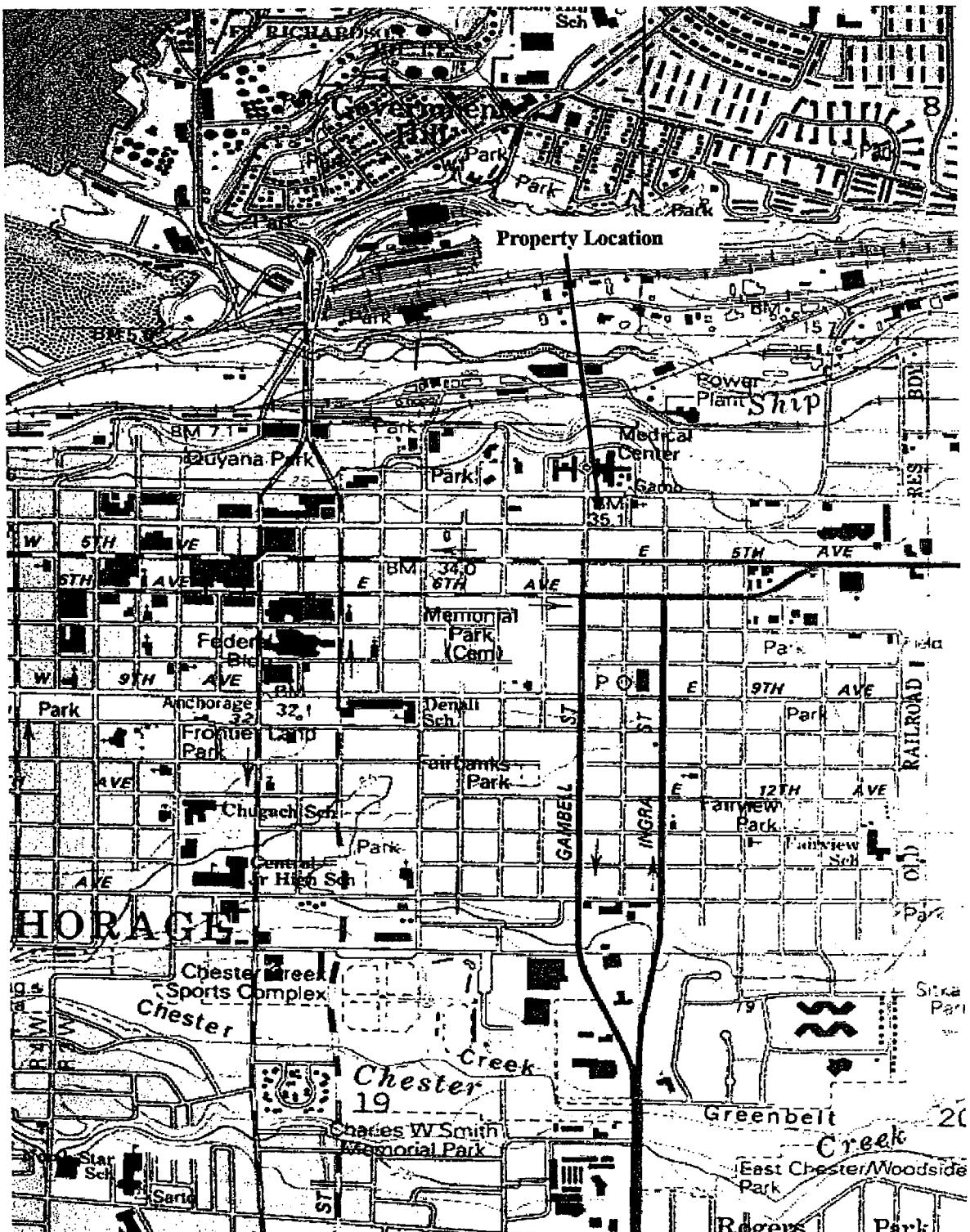
<sup>2</sup> = Groundwater Cleanup levels based on 18AAC 75.345 Table C.

**Border** = Concentration exceeds corresponding ADEC cleanup criterion

$\mu\text{g/L}$  = Micrograms per Liter

PCE = Tetrachloroethene

**APPENDIX A**  
**PHOTOGRAPHS**



Source: USGS Map, Anchorage (A-8) NW, Alaska 1979, Revised 1994.

Note: Contour Interval is 5 Meters

△ N  
0       $\frac{1}{4}$        $\frac{1}{2}$        $\frac{3}{4}$       1  
Approximate Scale in Miles



**FOURTH AVENUE AND GAMBELL  
STREET  
SITE VICINITY MAP**

BGES, INC.	May 2005	Figure 1
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**APPENDIX B**  
**SOIL BORING LOGS AND WELL CONSTRUCTION DIAGRAMS**



FOURTH AVENUE AND GAMBELL STREET

**BORING NUMBER: MW-2 BORING LOCATION: NW Corner of Property**

Date: March 12, 2005 Weather Conditions: Cloudy, Cool (Approximately 38 degrees Fahrenheit)

Time: 09:35 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
N/A	From: 0 to: 2.0 Time: 09:40	—	Drilled – Sand and Gravel; brown	N/A
S-1	From: 2.0 to: 4.0 Time: 9:55	0 / 0.5	Sand, coarse grained and gravel, subrounded; brown; saturated at top, dry at bottom. 1.5-foot recovery	31-36-31
S-2	From: 4.0 to: 6.0 Time: 10:05	0 / 8.2	Sand, very fine to fine grained and gravel, subrounded; thin clay layer at 5.7'; brown to light tan; 1.7' recovery	13-32-45-47
S-3	From: 6.0 to: 8.0 Time: 10:12	0 / 11.8	Sand, medium to coarse grained, and gravel, subrounded to angular; brown to tan; 1.6-foot recovery	16-20-17-16
S-4	From: 8.0 to: 10.0 Time: 10:18	0 / 6.1	Sand, fine to coarse grained, slightly silty, and gravel, rounded to angular; iron staining at btm.; light brown to tan; 1.6-foot recovery	5-14-14-18
S-5	From: 10.0 to: 12.0 Time: 10:26	0 / 16.2	Sand, medium grained, some coarse, grained and gravel, rounded to subangular; light brown to tan; moist; 1.5-foot recovery	12-12-12-12
S-6	From: 12.0 to: 14.0 Time: 10:34	0 / 11.4	Sand, fine to coarse grained, some gravel, angular to subrounded; light brown; charred wood in middle; 1.3-foot recovery	8-9-10-8
S-7	From: 14.0 to: 16.0 Time: 10:37	0 / 9.6	Sand, coarse grained, trace gravel, rounded; light brown; 1.5-foot recovery	6-6-10-9
S-8	From: 16.0 to: 18.0 Time: 10:48	0 / 6.1	Sand, fine to coarse grained, and gravel, subrounded; light brown; 1.5-foot recovery	7-12-12-10
S-9	From: 18.0 to: 20.0 Time: 11:05	2.3 / 57.2	Sand, medium to coarse grained, and gravel, subrounded; charred wood/peat at 19.8 feet	11-12-12-10

Notes: Thermo Environmental Instruments 580 EZ Photoionization Detector.



FOURTH AVENUE AND GAMBELL STREET

**BORING NUMBER: MW-2 BORING LOCATION: NW Corner of Property**

Date: March 12, 2005 Weather Conditions: Cloudy, Cool (Approximately 38 degrees Fahrenheit)

Time: 09:35 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-10	From: 20.0 to: 22.0 Time: 11:13	0 6.0	Sand, fine to coarse grained, trace gravel, angular; light brown; moist; 1.7-foot recovery	9-15-15-5
S-11	From: 22.0 to: 24.0 Time: 11:22	0 11.5	Sand, medium grained, trace coarse grained, trace gravel; light brown; moist; 1.8-foot recovery	8-11-13-16
S-12	From: 24.0 to: 26.0 Time: 11:30	0 4.2	Gravel, angular, and coarse sand; light brown; moist; 1.6' recovery	8-15-20-20
S-13	From: 26.0 to: 28.0 Time: 10:36	0 11.5	Sand, coarse grained, trace gravel, rounded to subrounded; brown; black streak (organics) at 27.7'; 1.6' recovery	11-13-12-11
S-14	From: 28.0 to: 30.0 Time: 11:44	0 115	Sand, medium to coarse grained; light brown; 3-inch thick peat layer at 29.2 feet; 1.6-foot recovery	8-8-13-12
S-15	From: 30.0 to: 32.0 Time: 11:53	12.7 38.4	Sand, fine to coarse grained; light brown; 1.7-foot recovery	11-11-14-15
S-16	From: 32.0 to: 34.0 Time: 12:01	0.8 6.1	Sand, fine to medium grained, trace coarse grained; light brown; 1.8-foot recovery	7-11-10-13
S-17	From: 34.0 to: 36.0 Time: 12:21	0.9 20	Sand, fine grained; light brown; 1.6-foot recovery	9-12-12-10
S-18	From: 36.0 to: 38.0 Time: 12:37	0 40	Sand, medium to coarse grained; light grey; moist; trace clay at bottom of spoon, 0.25-inch iron-stained lenses in bottom 11 inches; 1.8-foot recovery	6-11-15-15
S-19	From: 38.0 to: 40.0 Time: 12:50	0 69.1	Sand, coarse grained, dark grey; saturated; some layers of light brown iron staining; 1.9-foot recovery	6-12-11-10

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



FOURTH AVENUE AND GAMBELL STREET

**BORING NUMBER: MW-2 BORING LOCATION: NW Corner of Property**

Date: March 12, 2005 Weather Conditions: Cloudy, Cool (Approximately 38 degrees Fahrenheit)

Time: 09:35 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-20	From: 40.0 to: 42.0 Time: 13:03	0 47.9	Sand, medium grained; grey; saturated; 1.9-foot recovery	3-8-11-15
S-21	From: 42.0 to: 44.0 Time: 13:13	0 49.0	Sand, very fine grained, slightly silty (bottom 4 inches-no silt), grey, saturated	4-10-20-20
S-22	From: 44.0 to: 45.2 Time: 13:33	0 65.4	Sand, coarse grained; grey; saturated	4-5-7-6
S-22	From: 45.2 to: 46.0 Time: 10:36	0 65.4	Clay, dark grey	4-5-7-6
			End of boring - clay	

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



**FOURTH AVENUE AND GAMBELL STREET**

**BORING NUMBER: MW-3 BORING LOCATION: 89.3 feet east of Gambell Street, near Alley**

Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 38 degrees Fahrenheit)

Time: 08:00 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
Drilled	From: 0 to: 5.0 Time: 08:24	—	Sand, very fine grained, very silty; dark brown; frozen at the surface; some gravel at 3 feet below grade	N/A
S-1	From: 5.0 to: 7.0 Time: 8:32	— / 1.2	Sand, medium to coarse grained and gravel, subrounded to angular; brown; 1.4-foot recovery	10-15-21-31
Drilled	From: 7.0 to: 10.0 Time: 8:36	—	Sand and gravel; brown	N/A
S-2	From: 10.0 to: 12.0 Time: 8:41	— / 4.8	Sand, coarse grained, and gravel, subrounded to rounded, slightly silty; brown to light grey; 1.6-foot recovery	7-11-14-16
Drilled	From: 12.0 to: 15.0 Time: 8:45	—	Sand and gravel	N/A
S-3	From: 15.0 to: 17.0 Time: 8:49	— / 7.0	Sand, fine to coarse grained, and gravel, subrounded to rounded; brown; 1.4-foot recovery	8-12-14-18
Drilled	From: 17.0 to: 18.0 Time: 8:53	—	Sand and gravel	N/A
S-4	From: 18.0 to: 20.0 Time: 9:00	— / 3.7	Sand, very fine to coarse grained, slightly silty, and large gravel, subrounded; light brown to light grey; 1.4-foot recovery	8-16-21-17
S-5	From: 20.0 to: 22.0 Time: 9:06	— / 10.1	Sand, medium to coarse grained, and gravel, angular to subrounded; brown; 1.5-foot recovery	7-14-19-22
S-6	From: 22.0 to: 24.0 Time: 9:15	— / 3.8	Sand, fine to medium grained, and gravel, angular to subrounded; brown; 1.4-foot recovery	7-19-19-19

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



**FOURTH AVENUE AND GAMBELL STREET**

**BORING NUMBER: MW-3 BORING LOCATION: 89.3 feet east of Gambell Street, near Alley**

Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 38 degrees Fahrenheit)

Time: 08:00 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-7	From: 24.0 to: 26.0 Time: 9:23	— 6.8	Sand, medium to coarse grained, some gravel, subrounded to rounded; brown; 1/8-inch peat layer at 25.8'; 1.6-foot recovery	9-15-14-13
S-8	From: 26.0 to: 28.0 Time: 9:34	— 16.0	Sand, medium to coarse grained (top 0.7 foot), then fine grained, some gravel, subrounded; brown; 1.6-foot recovery	10-19-13-19
S-9	From: 28.0 to: 30.0 Time: 9:43	— 11.4	Sand, fine grained, trace coarse sand, some gravel, subrounded; brown; 1.6-foot recovery	8-16-16-20
S-10	From: 30.0 to: 32.0 Time: 9:51	— 6.3	Sand, medium to coarse grained, trace gravel, subrounded; moist; brown; 1.7-foot recovery	9-13-16-15
S-11	From: 32.0 to: 34.0 Time: 10:12	— 16.0	Sand, fine to coarse grained, some gravel, subrounded to rounded; dry; light brown; 1.6-foot recovery	6-13-15-12
S-12	From: 34.0 to: 36.0 Time: 10:21	— 5.5	Sand, very fine to medium grained, some coarse grained; dry; light brown; 1.6-foot recovery	5-11-11-15
S-13	From: 36.0 to: 38.0 Time: 10:35	— 11.3	Sand, medium grained; dry; light brown; 1.5-foot recovery	5-11-13-15
S-14	From: 38.0 to: 40.0 Time: 10:45	— 3.8	Sand, medium grained; moist; light brown to light grey; 2.0-foot recovery	5-11-14-16
S-15	From: 40.0 to: 42.0 Time: 10:54	— 6.6	Sand, medium grained; saturated; light grey; 1.6-foot recovery	9-10-10-12
S-16	From: 42.0 to: 44.0 Time: 11:05	— 0.0	Sand, fine to medium grained, trace gravel; saturated; grey; brown clay in bottom of spoon; 1.8-foot recovery	6-11-14-12

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



**FOURTH AVENUE AND GAMBELL STREET**

**BORING NUMBER: MW-3 BORING LOCATION: 89.3 feet east of Gambell Street, near Alley**

Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 38 degrees Fahrenheit)

Time: 08:00 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-17	From: 44.0 to: 46.0 Time: 11:17	— 0.0	Sand, medium to coarse grained; saturated; grey; 1.9-foot recovery	6-13-17-20
S-18	From: 46.0 to: 47.3 Time: 11:36	— 7.1	Sand, fine grained; saturated; grey;	3-3-8-22
S-18	From: 47.3 to: 47.6 Time: 11:36	— 7.1	Clay; grey	3-3-8-22
S-18	From: 47.6 to: 48.0 Time: 11:36	— 7.1	Sand, very fine grained, silty; saturated; grey	3-3-8-22
			End of Boring – 0.3-foot clay layer at 47.3 feet	

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



**FOURTH AVENUE AND GAMBELL STREET**

**BORING NUMBER: MW-4 BORING LOCATION: 62.0 feet east of Gambell Street, near 4<sup>th</sup> Ave.**

Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 36 degrees Fahrenheit)

Time: 13:15 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
Drilled	From: 0 to: 5.0 Time: 13:23	—	Sand and gravel, angular to subrounded; brown	N/A
S-1	From: 5.0 to: 7.0 Time: 13:40	— / 0.0	Sand, fine to coarse grained (clay at top 0.3 foot), and gravel, subrounded; 2.0-foot recovery	10-13-18-16
Drilled	From: 7.0 to: 10.0 Time: 13:45	—	Sand and gravel; brown	N/A
S-2	From: 10.0 to: 12.0 Time: 13:47	— / 2.8	Sand, very fine to coarse grained, silty, and few large pieces of gravel, subrounded; brown; black organic layer at 11.0-11.2 feet; 1.6-foot recovery	11-14-16-14
Drilled	From: 12.0 to: 15.0 Time: 13:50	—	Sand and gravel; brown	N/A
S-3	From: 15.0 to: 17.0 Time: 13:52	— / 0.2	Sand, coarse grained, and gravel, rounded to subrounded; brown; 1.7-foot recovery	6-11-13-15
Drilled	From: 17.0 to: 18.0 Time: 13:54	—	Sand and gravel; brown	N/A
S-4	From: 18.0 to: 20.0 Time: 13:59	— / 55.9	Sand, coarse grained, and gravel, subrounded; brown; black organics at 19.5-19.7 feet; 1.5-foot recovery	6-5-11-15
S-5	From: 20.0 to: 22.0 Time: 14:05	— / 0.0	Sand, coarse grained, and gravel, subrounded; light brown; 1.7-foot recovery	10-13-19-23
S-6	From: 22.0 to: 24.0 Time: 14:12	— / 16.4	Sand, fine to coarse grained, and gravel, subrounded; light brown; 1.6-foot recovery	9-15-16-18

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.



**FOURTH AVENUE AND GAMBELL STREET**

**BORING NUMBER: MW-4 BORING LOCATION: 62.0 feet east of Gambell Street, near 4<sup>th</sup> Ave.**

Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 38 degrees Fahrenheit)

Time: 13:15 Drilling Company/Rig Type: Denali Drilling/CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-7	From: 24.0 to: 26.0 Time: 14:17	— 17.1	Sand, fine to medium grained, and gravel, subrounded; brown; 0.1-foot black organic layer at 25.8 feet	7-11-10-12
S-8	From: 26.0 to: 28.0 Time: 14:25	— 9.3	Sand, coarse grained, and gravel, subrounded; brown to light brown; black peat layer at 27.1 feet;	7-12-16-17
S-9	From: 28.0 to: 30.0 Time: 14:37	— 0.0	Sand, coarse grained, slightly silty, some gravel, angular; light brown; 1.4-foot recovery	10-12-17-18
S-10	From: 30.0 to: 32.0 Time: 14:44	— 0.0	Sand, coarse grained, some gravel, subrounded; light brown; (31.7 to 32 feet – Sand, fine grained; light brown) 1.4-foot recovery	11-15-11-12
S-11	From: 32.0 to: 34.0 Time: 14:53	— 1.1	Sand, medium grained; light brown; 1.4-foot recovery	8-8-10-15
S-12	From: 34.0 to: 36.0 Time: 15:00	— 0.0	Sand, very fine to coarse grained; light brown; 1.5-foot recovery	10-13-15-16
S-13	From: 36.0 to: 38.0 Time: 15:10	— 3.7	Sand, fine grained; moist at bottom; brown; 1.7-foot recovery	7-11-13-14
S-14	From: 38.0 to: 40.0 Time: 15:19	— 0.0	Sand, fine grained; moist; dark grey; 1.8-foot recovery	8-9-10-11
S-15	From: 40.0 to: 41.0 Time: 15:27	— 0.0	Sand, fine grained; saturated; grey; 2.0-foot recovery	4-9-11-16
S-15	From: 41.0 to: 41.4 Time: 15:27	— 0.0	Sand, very fine grained, slightly silty; saturated; grey; 2.0-foot recovery	4-9-11-16

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.


**BGES, INC.  
SOIL BORING LOG**

FOURTH AVENUE AND GAMBELL STREET

**BORING NUMBER: MW-4 BORING LOCATION: 62.0 feet east of Gambell Street, near 4<sup>th</sup> Ave.**Date: March 13, 2005 Weather Conditions: Rainy, Cool (Approximately 38 degrees Fahrenheit)Time: 13:15 Drilling Company/Rig Type: Denali Drilling/CME 85Observer: RNB/KOG Drilling/Sampling Method: Hollow-Stem Auger/Split-Spoon Sampler

Sample No.	DEPTH	PID Spn/Smpl	DESCRIPTION	Blow Counts
S-15	From: 41.4 to: 42.0 Time: 15:27	— 0.0	Sand, medium to coarse grained; saturated; grey; 2.0-foot recovery	4-9-11-16
S-16	From: 42.0 to: 43.2 Time: 15:40	— 0.0	Sand, coarse grained; saturated; grey	4-7-13-21
S-16	From: 43.2 to: 44.0 Time: 15:40	— 0.0	Sand, very fine grained; saturated; grey; very thin brown lens at 43.6 feet	4-7-13-21
S-17	From: 44.0 to: 46.0 Time: 15:52	— 0.0	Sand, very fine grained, silty; saturated; dark grey; 2.0-foot recovery	7-12-17-26
S-18	From: 46.0 to: 46.9 Time: 16:08	— 0.0	Sand, medium grained; saturated; brown	3-2-4-9
S-18	From: 46.9 to: 48.0 Time: 16:08	— 0.0	Clay; grey	3-2-4-9
			End of Boring – clay layer at 46.9 feet	

Notes: Thermo Environmental Instruments 580 EZ Photoionization detector.

# BGES, INC.

Environmental Consultants



## BGES, INC. WELL CONSTRUCTION DIAGRAM

FOURTH AVENUE AND GAMBELL STREET

WELL NUMBER: MW-2

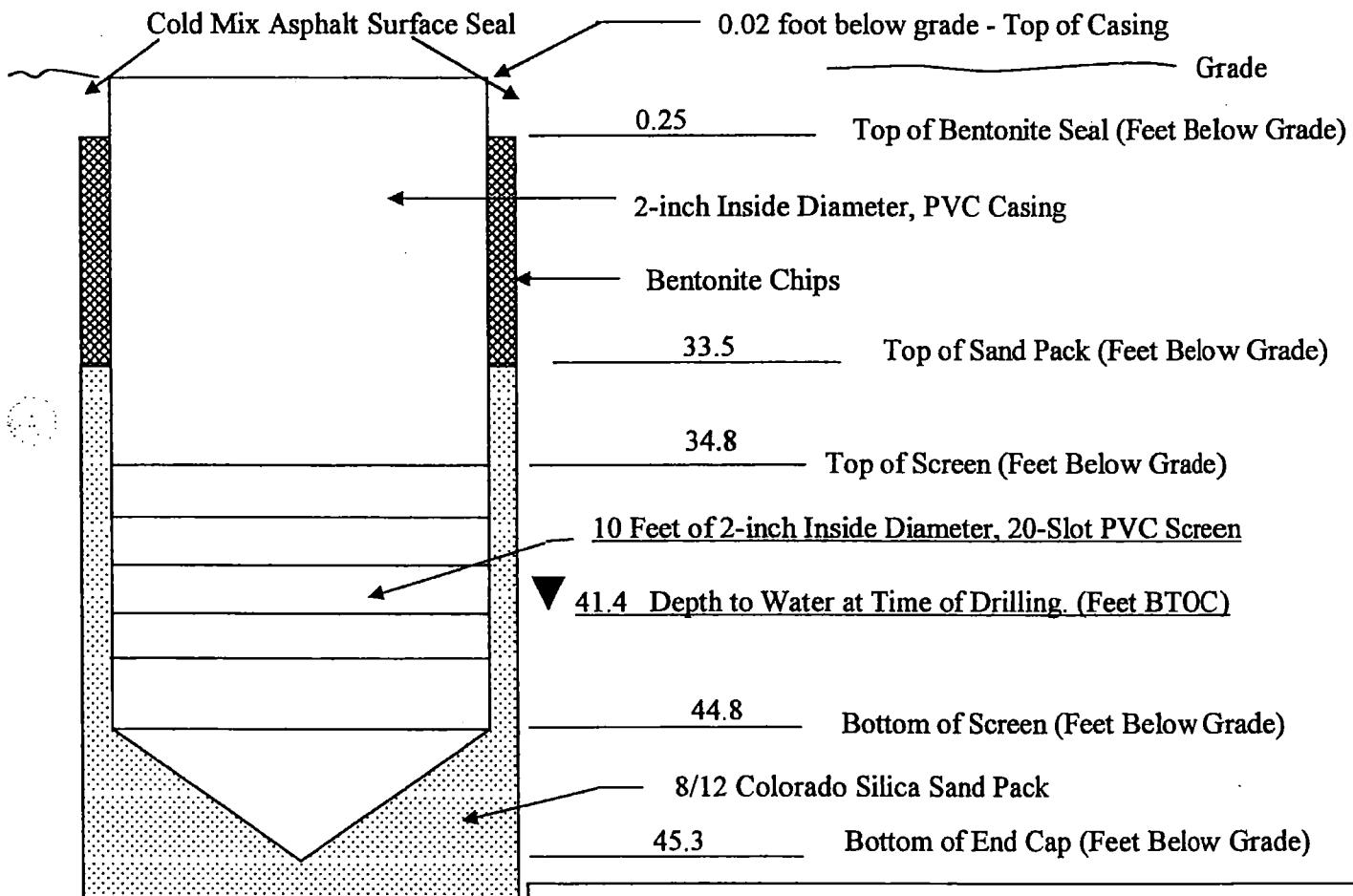
Date: 3/12/05

Weather Conditions: Cloudy and cool, about 45°F

Time: 13:45

Drilling Company/Rig Type: Denali Drilling, Truck-Mounted CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow Stem Auger/ Split-spoon



TOC Elevation: 98.87\* Total Well Depth (Ft. BTOC): 45.3

Notes: Drawing not to scale. TOC = Top Of Casing BTOC = Below Top Of Casing

TOC = 0.02 foot below grade.

\*OC elevation based on reference point (base of telephone pole) assumed to be 100 feet.

Seven Bags of Sand were used

# BGES, INC.

Environmental Consultants



## BGES, INC. WELL CONSTRUCTION DIAGRAM

FOURTH AVENUE AND GAMBELL STREET

WELL NUMBER: MW-3

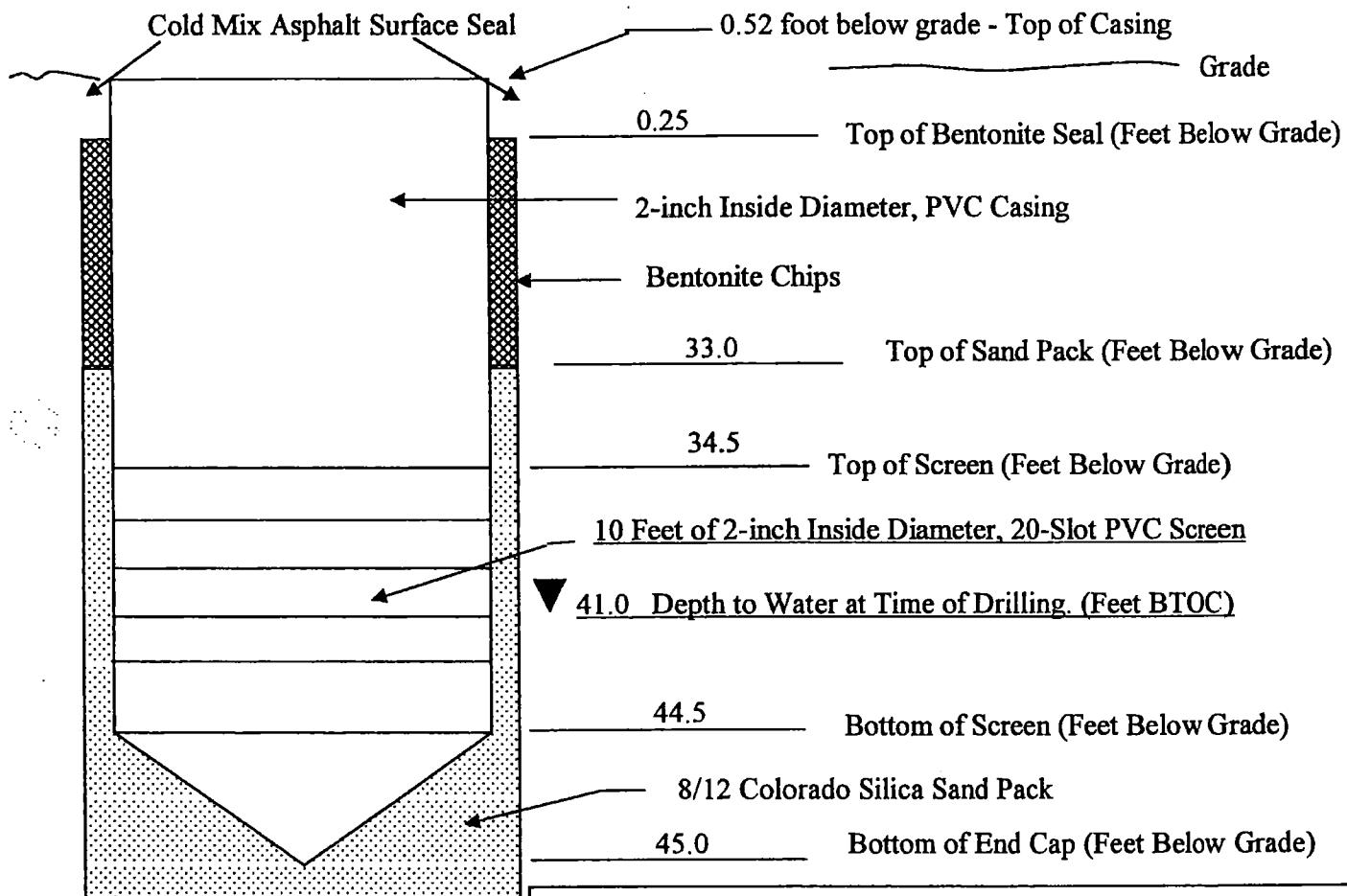
Date: 3/13/05

Weather Conditions: Rainy and cool, about 38°F

Time: 11:45

Drilling Company/Rig Type: Denali Drilling, Truck-Mounted CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow Stem Auger/ Split-spoon



Well Completion – Flush Grade  Stickup

TOC Elevation: 99.78\* Total Well Depth (Ft. BTOC): 45.0

Notes: Drawing not to scale. TOC = Top Of Casing BTOC = Below Top Of Casing

TOC = 0.52 foot below grade.

TOC elevation based on reference point (base of telephone pole) assumed to be 100 feet.

Seven Bags of Sand were used

# BGES, INC.

Environmental Consultants



## BGES, INC. WELL CONSTRUCTION DIAGRAM

FOURTH AVENUE AND GAMBELL STREET

WELL NUMBER: MW-4

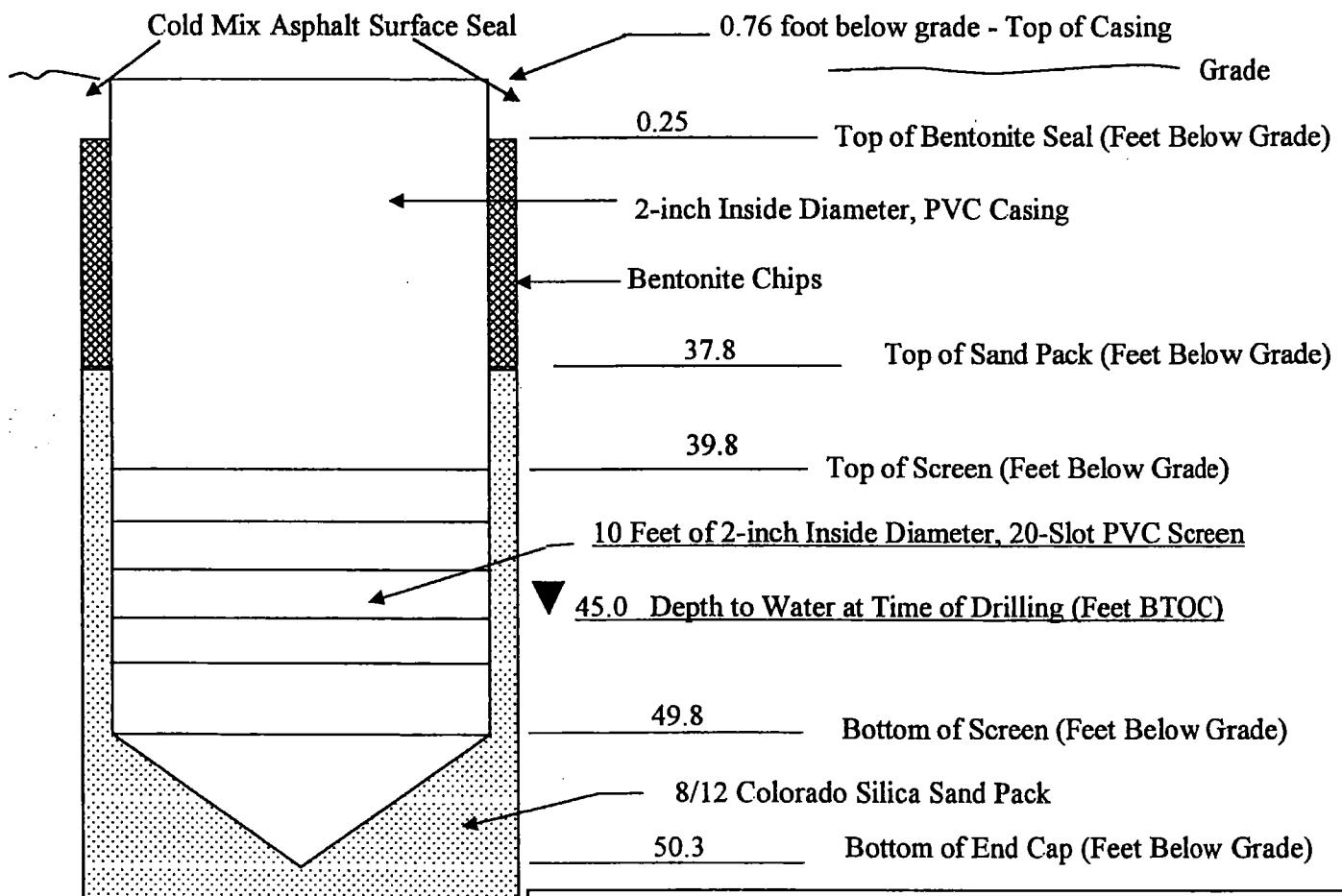
Date: 3/13/05

Weather Conditions: Rainy and cool, about 38°F

Time: 16:15

Drilling Company/Rig Type: Denali Drilling, Truck-Mounted CME 85

Observer: RNB/KOG Drilling/Sampling Method: Hollow Stem Auger/ Split-spoon



Well Completion – Flush Grade  Stickup

TOC Elevation: 99.23\* Total Well Depth (Ft. BTOC): 50.3

Notes: Drawing not to scale. TOC = Top Of Casing BTOC = Below Top Of Casing

TOC = 0.76 foot below grade.

\*OC elevation based on reference point (base of telephone pole) assumed to be 100 feet.

Seven Bags of Sand were used

**APPENDIX C**  
**WATER MONITORING LOGS**

**BGES, INC.**  
**WATER MONITORING LOG**  
**FOURTH AVENUE AND GAMBELL STREET**

**Well Number MW-1**

Time Arrived On Site: 13:20

Date of Depth to Water Measurement: April 6, 2005

Weather Conditions: Partly Sunny, Mild 45°F

Time of Depth to Water Measurement: 13:55

Top of Casing Elevation:

99.67

Type of Sampling Equipment:

Depth to Water (feet below top of casing):

38.90

Disposable Polyethylene Bailer

Water Elevation:

60.77

Horiba U-22

Total Depth of Well (feet below top of casing):

45

Depth to Water (feet below top of casing):

38.9

Water Column (feet):

6.1

Volume of well (gallons)

1.00

=0.0638 X Water Column (For 1 1/4-inch well)  
=0.1632 X Water Column (For 2-inch well)  
=0.6528 X Water Column (For 4-inch well)  
=1.4688 X Water Column (For 6-inch well)

Time Purging Began:

17:02

Time of Sampling:

17:57

Volume purged:

3 gallons

pH

5.55

pH

6.49

Conductivity - milli siemens per centimeter (ms/cm)

0.006

0.625

Turbidity - Nephelometric Turbidity Units (NTUs)

180

74

Dissolved Oxygen - grams per liter (g/l)

13.29

10.88

Temperature - degrees Celsius (-C)

9.31

7.34

Temperature (-C)

0.0

0.0

Salinity - percent (%)

0.004

0.401

TDS (g/l)

0.004

288

Oxidation Reduction Potential (ORP) - millivolts (mv)

277

pH

6.29

pH

Conductivity (ms/cm)

0.662

Turbidity (NTUs)

150

Dissolved Oxygen (g/l)

13.22

VOLUME ONE

Temperature (-C)

8.4

Salinity (%)

0

TDS (g/l)

0.423

ORP (mv)

286

pH

6.40

pH

Conductivity (ms/cm)

0.642

Turbidity (NTUs)

120

Dissolved Oxygen (g/l)

12.13

VOLUME THREE

Temperature (-C)

8.01

Salinity (%)

0

TDS (g/l)

0.413

ORP (mv)

291

Notes: The well recovered relatively slowly.

**BGES, INC.**  
**WATER MONITORING LOG**  
**FOURTH AVENUE AND GAMBELL STREET**

**Well Number MW-2**

Time Arrived On Site: 13:20

Date of Depth to Water Measurement: April 6, 2005

Weather Conditions: Partly Sunny, Mild 45°F

Time of Depth to Water Measurement: 14:10

Top of Casing Elevation:

98.87

Type of Sampling Equipment:

Depth to Water (feet below top of casing):

37.84

Disposable Polyethylene Bailer

Water Elevation:

61.03

Horiba U-22

Total Depth of Well (feet below top of casing):

45.3

Depth to Water (feet below top of casing):

37.84

Water Column (feet):

7.46

Volume of well (gallons)

1.22

=0.0638 X Water Column (For 1 1/4-inch well)

=0.1632 X Water Column (For 2-inch well)

=0.6528 X Water Column (For 4-inch well)

=1.4688 X Water Column (For 6-inch well)

Time Purging Began:

17:02

Time of Sampling:

17:57

Volume purged:

5 gallons

pH

6.41

pH

Conductivity - milli siemens per centimeter (ms/cm)

0.682

Conductivity (ms/cm)

Turbidity - Nephelometric Turbidity Units (NTUs)

160

Turbidity (NTUs)

Dissolved Oxygen - grams per liter (g/l)

12.19

Dissolved Oxygen (g/l)

Temperature - degrees Celsius (°C)

8.47

Temperature (°C)

Salinity - percent (%)

0.0

Salinity (%)

TDS (g/l)

0.438

TDS (g/l)

Oxidation Reduction Potential (ORP) - millivolts (mv)

0

ORP (mv)

pH

6.42

pH

Conductivity (ms/cm)

0.005

Conductivity (ms/cm)

Turbidity (NTUs)

780

Turbidity (NTUs)

Dissolved Oxygen (g/l)

12.30

Dissolved Oxygen (g/l)

Temperature (°C)

8.14

Temperature (°C)

Salinity (%)

0

Salinity (%)

TDS (g/l)

0.003

TDS (g/l)

ORP (mv)

278

ORP (mv)

pH

6.42

pH

Conductivity (ms/cm)

0.005

Conductivity (ms/cm)

Turbidity (NTUs)

780

Turbidity (NTUs)

Dissolved Oxygen (g/l)

12.30

Dissolved Oxygen (g/l)

Temperature (°C)

8.14

Temperature (°C)

Salinity (%)

0

Salinity (%)

TDS (g/l)

0.003

TDS (g/l)

ORP (mv)

278

ORP (mv)

Notes: Well was sampled following development. The well recovered relatively slowly.

**BGES, INC.**  
**WATER MONITORING LOG**  
**FOURTH AVENUE AND GAMBELL STREET**

**Well Number MW-3**

Time Arrived On Site: 13:20

Date of Depth to Water Measurement: April 6, 2005

Weather Conditions: Partly Sunny, Mild 45°F

Time of Depth to Water Measurement: 14:00

Top of Casing Elevation:

99.78

Depth to Water (feet below top of casing):

39.44

Water Elevation:

60.34

Type of Sampling Equipment:

Disposable Polyethylene Bailer  
Horiba U-22

Total Depth of Well (feet below top of casing):

45.0

Depth to Water (feet below top of casing):

39.44

Water Column (feet):

5.56

Volume of well (gallons)

0.91

=0.0638 X Water Column (For 1 1/4-Inch well)  
=0.1632 X Water Column (For 2-inch well)  
=0.6528 X Water Column (For 4-inch well)  
=1.4688 X Water Column (For 6-inch well)

Time Purging Began:

17:45

Time of Sampling:

18:39

Volume purged:

5 gallons

pH

pH

Conductivity - milli siemens per centimeter (ms/cm)

Conductivity (ms/cm)

Turbidity - Nephelometric Turbidity Units (NTUs)

Turbidity (NTUs)

Dissolved Oxygen - grams per liter (g/l)

Dissolved Oxygen (g/l)

Temperature - degrees Celsius (-C)

Temperature (-C)

Salinity - percent (%)

Salinity (%)

TDS (g/l)

TDS (g/l)

Oxidation Reduction Potential (ORP) - millivolts (mv)

ORP (mv)

VOLUME

FOUR

pH

pH

Conductivity (ms/cm)

Conductivity (ms/cm)

Turbidity (NTUs)

Turbidity (NTUs)

Dissolved Oxygen (g/l)

Dissolved Oxygen (g/l)

Temperature (-C)

Temperature (-C)

Salinity (%)

Salinity (%)

TDS (g/l)

TDS (g/l)

ORP (mv)

VOLUME

FIVE

pH

pH

Conductivity (ms/cm)

Conductivity (ms/cm)

Turbidity (NTUs)

Turbidity (NTUs)

Dissolved Oxygen (g/l)

Dissolved Oxygen (g/l)

Temperature (-C)

Temperature (-C)

Salinity (%)

Salinity (%)

TDS (g/l)

TDS (g/l)

ORP (mv)

VOLUME

SIX

Notes: Well was sampled following development. The well recovered relatively slowly.

**BGES, INC.**  
**WATER MONITORING LOG**  
**FOURTH AVENUE AND GAMBELL STREET**

**Well Number MW-4**

Time Arrived On Site: 13:20

Date of Depth to Water Measurement: April 6, 2005

Weather Conditions: Partly Sunny, Mild 45°F

Time of Depth to Water Measurement: 15:42

Top of Casing Elevation:

99.23

Type of Sampling Equipment:

Depth to Water (feet below top of casing):

37.95

Disposable Polyethylene Bailer

Water Elevation:

61.28

Horiba U-22

Total Depth of Well (feet below top of casing):

50.3

Depth to Water (feet below top of casing):

37.95

Water Column (feet):

12.35

Volume of well (gallons)

2.02

=0.0638 X Water Column (For 1 1/4-inch well)

=0.1632 X Water Column (For 2-inch well)

=0.6528 X Water Column (For 4-inch well)

=1.4688 X Water Column (For 6-inch well)

Time Purging Began:

18:30

Time of Sampling:

19:15

Volume purged:

5 gallons

pH

6.44

pH

Conductivity - milli siemens per centimeter (ms/cm)

0.004

Conductivity (ms/cm)

Turbidity - Nephelometric Turbidity Units (NTUs)

560

Turbidity (NTUs)

Dissolved Oxygen - grams per liter (g/l)

11.58

Dissolved Oxygen (g/l)

Temperature - degrees Celsius (°C)

7.87

Temperature (°C)

Salinity - percent (%)

0

Salinity (%)

TDS (g/l)

0.003

TDS (g/l)

Oxidation Reduction Potential (ORP) - millivolts (mv)

302

ORP (mv)

VOLUME  
ONE

VOLUME  
FOUR

pH

pH

Conductivity (ms/cm)

Conductivity (ms/cm)

Turbidity (NTUs)

Turbidity (NTUs)

Dissolved Oxygen (g/l)

Dissolved Oxygen (g/l)

Temperature (°C)

Temperature (°C)

Salinity (%)

Salinity (%)

TDS (g/l)

TDS (g/l)

ORP (mv)

ORP (mv)

VOLUME  
TWO

VOLUME  
FIVE

pH

pH

Conductivity (ms/cm)

Conductivity (ms/cm)

Turbidity (NTUs)

Turbidity (NTUs)

Dissolved Oxygen (g/l)

Dissolved Oxygen (g/l)

Temperature (°C)

Temperature (°C)

Salinity (%)

Salinity (%)

TDS (g/l)

TDS (g/l)

ORP (mv)

ORP (mv)

VOLUME  
THREE

VOLUME  
SIX

Notes: Well was sampled following development. The well recovered relatively slowly.

**APPENDIX D**  
**LABORATORY ANALYTICAL DATA**

**SGS Environmental Services Inc.  
Alaska Division  
Level 2 Laboratory Data Report**

Project: 4th & Gambell

Client: BGES Inc.

SGS Work Order: 1051337

Released by: (Signature) Shane Poston

(Printed Name) Shane Poston

(Title) Asst Tech Dir / PMS

(Date) 3-24-05

**Contents:**

Case Narrative  
Chain of Custody/Sample Rec Form  
Final Report Page  
Quality Control Summary Forms

**Note:**

Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

This report contains a total number of 48 pages.

## Case Narrative

**Customer:** BGESINC

**BGES Inc.**

**Project:** 1051337

**4th & Gambell**

### 614326 MS

8260 - MS result for 4-methyl-2-pentanone is biased high and does not meet laboratory QC criteria. This analyte is not detected above the PQL in the original sample.

### 614327 MSD

8260 - MSD results for 4-methyl-2-pentanone and 2-hexanone are biased high and do not meet laboratory QC criteria. These analytes are not detected above the PQL in the original sample.

### 614352 CCV

8260 - CCV results for several analytes are biased high and do not meet laboratory QC criteria. These analytes are not detected above the PQL in any of the associated samples.

### 614798 CCV

8260 - CCV results for several analytes are biased high and do not meet laboratory QC criteria. These analytes are not detected above the PQL in any of the associated samples.

### 615035 CCV

8260 - CCV recoveries for several analytes are biased high and do not meet laboratory QC goals. These analytes were not detected in the associated samples.

### 614351 IB

8260 - IB results for dibromofluoromethane(surr), 1,2-dichloroethane-D4(surr), and toluene-D8(surr) are biased high and do not meet laboratory QC criteria. There are no target analytes detected above the PQL associated with these surrogates.

# SGS

**CHAIN OF CUSTODY RECORD**  
**CT&E Environmental Services Inc**  
 Laboratory Division

1051337



- onwide  
 • Louisiana  
 • Michigan  
 • West Virginia

ental.com 022871

1	CLIENT: <i>BGES, Inc</i>	CT&E Reference:
	CONTACT: <i>Keith Guyer</i>	PAGE <u>1</u> OF <u>1</u>
	PHONE NO: <i>(907) 644-2900</i>	
	PROJECT: <i>44+Gamwell</i>	SITE/PWSID#:
	REPORTS TO: <i>P.O. Box 110126 Anchorage, AK 99511</i>	FAX NO.: <i>(907) 644-2901</i>
2	INVOICE TO: <i>BGES</i>	QUOTE #
		P.O. NUMBER <i>04-038-03</i>

No C O N T A I N E R S	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used	Method									
			VOCs (S1826)									
①	A-B MW-2 S-9	3/12 1105 Soil	2	G	X							
②	MW-2 S-14	3/12 1144 Soil	2	G	X							
③	MW-2 S-19	3/12 1250 Soil	2	G	X							
④	MW-3 S-5	3/13 0906 Soil	2	G	X							
⑤	MW-3 S-11	3/13 1012 Soil	2	G	X							
⑥	MW-3 S-18	3/13 1136 Soil	2	G	X							
⑦	MW-4 S-4	3/13 1359 Soil	2	G	X							
⑧	MW-4 S-13	3/13 1510 Soil	2	G	X							
9A	TripBlank 3-14-05											

5	Collected/Relinquished By:(1) <i>Keith Guyer</i>	Date <i>3/14</i>	Time <i>1134</i>	Received By:	4	Shipping Carrier:	Samples Received Cold? (Circle) YES NO				
	Relinquished By: (2)	Date	Time	Received By:		Shipping Ticket No:	Temperature °C: <i>73-1.0</i>				
	Relinquished By: (3)	Date	Time	Received By:		Special Deliverable Requirements:	Chain of Custody Seal: (Circle)				
	Relinquished By: (4)	Date <i>3/14/05</i>	Time <i>1134</i>	Received By: <i>[Signature]</i>			INTACT	BROKEN	ABSENT		
Bates 333	Requested Turnaround Time and Special Instructions:										

SGS

## SAMPLE RECEIPT FORM

SGS WO#:



Yes No NA

- Are samples **RUSH**, priority, or w/n 72 hrs. of **hold time**?  Due Date: 3-28-05
- If yes have you done **e-mail notification**?  Received Date: 3-14-05
- Are samples **within 24 hrs.** of **hold time or due date**?  Received Time: 1134
- If yes, have you **spoken with Supervisor**?  Is date/time conversion necessary? N
- Archiving bottles- if req., are they properly marked?  # of hours to AK Local Time:
- Are there any **problems**? PM Notified?  Thermometer ID: SD
- Were samples preserved correctly and pH verified?  Cooler ID:

Cooler ID	Temp Blank	Cooler Temp
<input type="text"/>	<u>1.0</u> °C	<input type="text"/> °C
<input type="text"/>	<input type="text"/> °C	<input type="text"/> °C
<input type="text"/>	<input type="text"/> °C	<input type="text"/> °C
<input type="text"/>	<input type="text"/> °C	<input type="text"/> °C
<input type="text"/>	<input type="text"/> °C	<input type="text"/> °C

\*Temperature readings include thermometer correction factors

Delivery method (circle all that apply): Client

Alert Courier / UPS / FedEx / USPS /  
 AA Goldstreak / NAC / ERA / PenAir / Cartile  
 Lynden / SGS / Other:

Airbill # Additional Sample Remarks: ( if applicable) Extra Sample Volume? Limited Sample Volume? Field preserved for volatiles? Field-filtered for dissolved? Lab-filtered for dissolved? Ref Lab required? Foreign Soil?

This section must be filled if problems are found.

Yes  No Was client notified of problems? Individual contacted Via: Phone  Fax  Email  (circle one)Date/Time Reason for contact Change Order Required? SGS Contact 

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes <input type="checkbox"/>	No <input type="checkbox"/>
Is received temperature 4 + 2°C? <input type="checkbox"/>	
Exceptions: <input type="text"/>	
Samples/Analyses Affected: <input type="text"/>	
Rad Screen performed? <input type="checkbox"/>	
Result: <input type="text"/>	
Was there an airbill? <input type="checkbox"/> Note # above in the right hand column	
Was cooler sealed with custody seals? <input type="checkbox"/> # where: <input type="text"/>	
Were seal(s) intact upon arrival? <input type="checkbox"/>	
Was there a COC with cooler? <input type="checkbox"/>	
Was the COC filled out properly? <input type="checkbox"/>	
Did the COC indicate COE / AFCEE / Navy project? <input type="checkbox"/>	
Did the COC and samples correspond? <input type="checkbox"/>	
Were all sample packed to prevent breakage? <input type="checkbox"/>	
Packing material: <input type="text"/>	
Were all samples unbroken and clearly labeled? <input type="checkbox"/>	
Were all samples sealed in separate plastic bags? <input type="checkbox"/>	
Were all VOC's free of headspace and/or MeOH preserved? <input type="checkbox"/>	
Were correct container / sample sizes submitted? <input type="checkbox"/>	
Is sample condition good? <input type="checkbox"/>	
Was copy of COC, SRF, and custody seals given to PM to fax? <input type="checkbox"/>	

Notes: also received 24 4oz TW w/sep & MeOH samples for disposal

Completed by (sign):

(print): James JohnsonLogin proof (check one):  waived  required  performed by:

SGS

1051337



**SAMPLE RECEIPT FORM (page 2)**

**SGS WO#:**

### Bottle Totals

L2

**Completed by:**

Date: 3-14-05

Form # F004r14 : 05/17/04



## Laboratory Analysis Report

200 W. Potter Drive  
Anchorage, AK 99518-1605  
Tel: (907) 562-2343  
Fax: (907) 561-5301  
Web: <http://www.us.sgs.com>

Keith Guyer  
BGES Inc.  
P.O. Box 110126  
Anchorage, AK 99511

Work Order: 1051337  
4th & Gambell  
Client: BGES Inc.  
Report Date: March 21, 2005

Released by:

Shane Poston

Digitally signed by Shane Poston  
DN: CN = Shane Poston, C = US, OU  
= SGS Anchorage, AK  
Date: 2005.03.22 13:56:35 -09'00'

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Control Manual that outlines this program is available at your request. The laboratory ADEC certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS Quality Assurance Program Plan and the National Environmental Laboratory Accreditation Conference.

If you have any questions regarding this report or if we can be of any other assistance, please call your SGS Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

- PQL Practical Quantitation Limit (reporting limit).
- U Indicates the analyte was analyzed for but not detected.
- F Indicates an estimated value that falls below PQL, but is greater than the MDL.
- J The quantitation is an estimation.
- B Indicates the analyte is found in a blank associated with the sample.
- \* The analyte has exceeded allowable regulatory or control limits.
- GT Greater Than
- D The analyte concentration is the result of a dilution.
- LT Less Than
- ! Surrogate out of control limits.
- Q QC parameter out of acceptance range.
- M A matrix effect was present.
- JL The analyte was positively identified, but the quantitation is a low estimation.
- E The analyte result is high outside of calibrated range.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.



SGS Ref.# 1051337001  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-2 S-9  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 11:05  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloromethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Vinyl chloride	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromomethane	92.4 U	92.4	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloroethane	92.4 U	92.4	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichlorofluoromethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Acetone	231 U	231	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon disulfide	92.4 U	92.4	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Methylene chloride	92.4 U	92.4	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,2-Dichloroethene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Butanone (MEK)	231 U	231	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2,2-Dichloropropane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,2-Dichloroethene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,1-Trichloroethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromochloromethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloroform	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon tetrachloride	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Benzene	12.0 U	12.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloropropene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloroethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichloroethene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloropropane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Dibromomethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromodichloromethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Chloroethyl Vinyl Ether	92.4 U	92.4	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,2-Trichloroethane	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,3-Dichloropropene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
4-Methyl-2-pentanone (MIBK)	231 U	231	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Toluene	46.2 U	46.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,3-Dichloropropene	23.1 U	23.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		



SGS Ref.# 1051337001  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-2 S-9  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/12/2005 11:05  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	29700	577	ug/Kg	SW8260B	A		03/12/05	03/17/05	TJE
1,3-Dichloropropane	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
2-Hexanone	231 U	231	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Dibromochloromethane	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,1,1,2-Tetrachloroethane	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2-Dibromoethane	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Chlorobenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Ethylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
P & M -Xylene	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
o-Xylene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Styrene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Bromoform	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Isopropylbenzene (Cumene)	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Bromobenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2,3-Trichloropropane	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
n-Propylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,1,2,2-Tetrachloroethane	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
2-Chlorotoluene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
4-Chlorotoluene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,3,5-Trimethylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
tert-Butylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2,4-Trimethylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
sec-Butylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,3-Dichlorobenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
4-Isopropyltoluene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,4-Dichlorobenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2-Dichlorobenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
n-Butylbenzene	23.1 U	23.1	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2-Dibromo-3-chloropropane	92.4 U	92.4	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2,4-Trichlorobenzene	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Hexachlorobutadiene	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Naphthalene	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
Methyl-t-butyl ether	37.0 U	37.0	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE
1,2,3-Trichlorobenzene	46.2 U	46.2	ug/Kg	SW8260B	A		03/12/05	03/15/05	TJE



SGS Ref.# 1051337001  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-2 S-9  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 11:05  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

**Surrogates**

Dibromofluoromethane <surr>	105		%	SW8260B	A	83-119	03/12/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	110		%	SW8260B	A	83-122	03/12/05	03/15/05	TJE
Toluene-d8 <surr>	104		%	SW8260B	A	87-115	03/12/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	95.2		%	SW8260B	A	46-133	03/12/05	03/15/05	TJE

**Solids**

Total Solids	96.7		%	SM20 2540G	B		03/15/05	JC
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SGS Ref.# 1051337002  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-2 S-14  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/12/2005 11:44  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Vinyl chloride	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromomethane	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloroethane	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichlorofluoromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Acetone	270 U	270	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon disulfide	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Methylene chloride	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,2-Dichloroethene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Butanone (MEK)	270 U	270	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2,2-Dichloropropane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,2-Dichloroethene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,1-Trichloroethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromochloromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloroform	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon tetrachloride	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Benzene	14.0 U	14.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloroethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloropropene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichloroethene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloropropane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Dibromomethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromodichloromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Chloroethyl Vinyl Ether	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,2-Trichloroethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,3-Dichloropropene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
4-Methyl-2-pentanone (MIBK)	270 U	270	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Toluene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,3-Dichloropropene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		



SGS Ref.# 1051337002  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-2 S-14  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 11:44  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	79500	1350	ug/Kg	SW8260B	A	03/12/05 03/18/05	TJE		
1,3-Dichloropropane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Hexanone	270 U	270	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Dibromochloromethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dibromoethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,1,2-Tetrachloroethane	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chlorobenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Ethylbenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
P & M -Xylene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
o-Xylene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Styrene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromoform	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Isopropylbenzene (Cumene)	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromobenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2,3-Trichloropropane	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
n-Propylbenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,2,2-Tetrachloroethane	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Chlorotoluene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
4-Chlorotoluene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,3,5-Trimethylbenzene	38.0	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
tert-Butylbenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2,4-Trimethylbenzene	32.6	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
sec-Butylbenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,3-Dichlorobenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
4-Isopropyltoluene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,4-Dichlorobenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichlorobenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
n-Butylbenzene	27.0 U	27.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dibromo-3-chloropropane	108 U	108	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2,4-Trichlorobenzene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Hexachlorobutadiene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Naphthalene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Methyl-t-butyl ether	43.1 U	43.1	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2,3-Trichlorobenzene	53.9 U	53.9	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		



SGS Ref.# 1051337002  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-2 S-14  
Matrix Soil/Solid

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Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 11:44  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

**Surrogates**

Dibromofluoromethane <surr>	109	%	SW8260B	A	83-119	03/12/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	114	%	SW8260B	A	83-122	03/12/05	03/15/05	TJE
Toluene-d8 <surr>	102	%	SW8260B	A	87-115	03/12/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	82.7	%	SW8260B	A	46-133	03/12/05	03/15/05	TJE

**Solids**

Total Solids	97.3	%	SM20 2540G	B	03/15/05	JC
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SGS Ref.# 1051337003  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-2 S-19  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/12/2005 12:50  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloromethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Vinyl chloride	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromomethane	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Chloroethane	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichlorofluoromethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Acetone	162 U	162	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon disulfide	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Methylene chloride	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,2-Dichloroethene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Butanone (MEK)	162 U	162	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2,2-Dichloropropane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,2-Dichloroethene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,1-Trichloroethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloroethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromoform	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Carbon tetrachloride	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Benzene	8.45 U	8.45	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1-Dichloropropene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloroethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Trichloroethene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,2-Dichloropropane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Dibromomethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Bromodichloromethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
2-Chloroethyl Vinyl Ether	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
1,1,2-Trichloroethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
cis-1,3-Dichloropropene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
4-Methyl-2-pentanone (MIBK)	162 U	162	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
Toluene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		
trans-1,3-Dichloropropene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05 03/15/05	TJE		



SGS Ref.# 1051337003  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-2 S-19  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 12:50  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	542	16.2	ug/Kg	SW8260B	A	03/12/05	03/17/05	TJE	
1,3-Dichloropropane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
2-Hexanone	162 U	162	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Dibromochloromethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,1,1,2-Tetrachloroethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2-Dibromoethane	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Chlorobenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Ethylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
P & M -Xylene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
o-Xylene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Styrene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Bromoform	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Isopropylbenzene (Cumene)	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Bromobenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2,3-Trichloropropane	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
n-Propylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,1,2,2-Tetrachloroethane	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
2-Chlorotoluene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
4-Chlorotoluene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,3,5-Trimethylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
tert-Butylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2,4-Trimethylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
sec-Butylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,3-Dichlorobenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
4-Isopropyltoluene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,4-Dichlorobenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2-Dichlorobenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
n-Butylbenzene	16.2 U	16.2	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2-Dibromo-3-chloropropane	65.0 U	65.0	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2,4-Trichlorobenzene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Hexachlorobutadiene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Naphthalene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
Methyl-t-butyl ether	26.0 U	26.0	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	
1,2,3-Trichlorobenzene	32.5 U	32.5	ug/Kg	SW8260B	A	03/12/05	03/15/05	TJE	

**SGS**

SGS Ref.# 1051337003  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-2 S-19  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/12/2005 12:50  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy****Surrogates**

Dibromofluoromethane <surr>	106		%	SW8260B	A	83-119	03/12/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	110		%	SW8260B	A	83-122	03/12/05	03/15/05	TJE
Toluene-d8 <surr>	103		%	SW8260B	A	87-115	03/12/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	78.5		%	SW8260B	A	46-133	03/12/05	03/15/05	TJE

**Solids**

Total Solids	83.7		%	SM20 2540G	B		03/15/05	JC
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SGS Ref.# 1051337004  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-3 S-5  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 9:06  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Chloromethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Vinyl chloride	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromomethane	50.5 U	50.5	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Chloroethane	50.5 U	50.5	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Trichlorofluoromethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1-Dichloroethene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Acetone	126 U	126	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Carbon disulfide	50.5 U	50.5	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Methylene chloride	50.5 U	50.5	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
trans-1,2-Dichloroethene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Butanone (MEK)	126 U	126	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2,2-Dichloropropane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
cis-1,2-Dichloroethene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,1-Trichloroethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1-Dichloroethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromochloromethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Chloroform	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Carbon tetrachloride	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Benzene	6.56 U	6.56	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1-Dichloropropene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dichloroethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Trichloroethene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dichloropropane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Dibromomethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromodichloromethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,2-Trichloroethane	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Chloroethyl Vinyl Ether	50.5 U	50.5	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
cis-1,3-Dichloropropene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
4-Methyl-2-pentanone (MIBK)	126 U	126	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Toluene	25.2 U	25.2	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
trans-1,3-Dichloropropene	12.6 U	12.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE



SGS Ref.# 1051337004  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-3 S-5  
 Matrix Soil/Solid

**All Dates/Times are Alaska Standard Time**  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/13/2005 9:06  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	3590	126	ug/Kg	SW8260B	A	03/13/05 03/17/05	TJE		
1,3-Dichloropropane	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Hexanone	126 U	126	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Dibromochloromethane	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,1,2-Tetrachloroethane	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromoethane	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chlorobenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Ethylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
P & M -Xylene	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
o-Xylene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Styrene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromoform	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Isopropylbenzene (Cumene)	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromobenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichloropropane	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Propylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,2,2-Tetrachloroethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Chlorotoluene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Chlorotoluene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3,5-Trimethylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
tert-Butylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trimethylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
sec-Butylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3-Dichlorobenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Isopropyltoluene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,4-Dichlorobenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dichlorobenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Butylbenzene	12.6 U	12.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromo-3-chloropropane	50.5 U	50.5	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trichlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Hexachlorobutadiene	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Naphthalene	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Methyl-t-butyl ether	20.2 U	20.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		



SGS Ref.# 1051337004  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-3 S-5  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 9:06  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

**Surrogates**

Dibromofluoromethane <surr>	114		%	SW8260B	A	83-119	03/13/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	114		%	SW8260B	A	83-122	03/13/05	03/15/05	TJE
Toluene-d8 <surr>	102		%	SW8260B	A	87-115	03/13/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	95.6		%	SW8260B	A	46-133	03/13/05	03/15/05	TJE

**Solids**

Total Solids	97.8		%	SM20 2540G	B		03/15/05	JC
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SGS Ref.# 1051337005  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-3 S-11  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/13/2005 10:12  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy

Dichlorodifluoromethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloromethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Vinyl chloride	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromomethane	80.6 U	80.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroethane	80.6 U	80.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichlorofluoromethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Acetone	201 U	201	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon disulfide	80.6 U	80.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Methylene chloride	80.6 U	80.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,2-Dichloroethene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Butanone (MEK)	201 U	201	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2,2-Dichloropropane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,1-Trichloroethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,2-Dichloroethene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromochloromethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroform	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon tetrachloride	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Benzene	10.5 U	10.5	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloropropene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloroethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichloroethene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloropropane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Dibromomethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromodichloromethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,2-Trichloroethane	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Chloroethyl Vinyl Ether	80.6 U	80.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,3-Dichloropropene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
4-Methyl-2-pentanone (MIBK)	201 U	201	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Toluene	40.3 U	40.3	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,3-Dichloropropene	20.1 U	20.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE



SGS Ref.# 1051337005  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-3 S-11  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 10:12  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

Tetrachloroethene	5210	201	ug/Kg	SW8260B	A		03/13/05	03/17/05	TJE
1,3-Dichloropropane	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Hexanone	201 U	201	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Dibromochloromethane	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,1,2-Tetrachloroethane	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dibromoethane	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Chlorobenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Ethylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
P & M -Xylene	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
o-Xylene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Styrene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromoform	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Isopropylbenzene (Cumene)	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromobenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,3-Trichloropropane	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,2,2-Tetrachloroethane	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
n-Propylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Chlorotoluene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
4-Chlorotoluene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,3,5-Trimethylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
tert-Butylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,4-Trimethylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
sec-Butylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,3-Dichlorobenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
4-Isopropyltoluene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,4-Dichlorobenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dichlorobenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
n-Butylbenzene	20.1 U	20.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dibromo-3-chloropropane	80.6 U	80.6	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,4-Trichlorobenzene	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Hexachlorobutadiene	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Naphthalene	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,3-Trichlorobenzene	40.3 U	40.3	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Methyl-t-butyl ether	32.2 U	32.2	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE

**SGS**

SGS Ref.# 1051337005  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-3 S-11  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 10:12  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy****Surrogates**

Dibromofluoromethane <surr>	111	%	SW8260B	A	83-119	03/13/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	115	%	SW8260B	A	83-122	03/13/05	03/15/05	TJE
Toluene-d8 <surr>	103	%	SW8260B	A	87-115	03/13/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	91.5	%	SW8260B	A	46-133	03/13/05	03/15/05	TJE

**Solids**

Total Solids	97.3	%	SM20 2540G	B		03/15/05	JC
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SGS Ref.# 1051337006  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-3 S-18  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 11:36  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy

Dichlorodifluoromethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloromethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Vinyl chloride	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromomethane	68.1 U	68.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroethane	68.1 U	68.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichlorofluoromethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Acetone	170 U	170	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon disulfide	68.1 U	68.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Methylene chloride	68.1 U	68.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,2-Dichloroethene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Butanone (MEK)	170 U	170	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2,2-Dichloropropane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,1-Trichloroethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,2-Dichloroethene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromochloromethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroform	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon tetrachloride	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Benzene	8.86 U	8.86	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloropropene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloroethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichloroethene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloropropane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Dibromomethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromodichloromethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,2-Trichloroethane	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Chloroethyl Vinyl Ether	68.1 U	68.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,3-Dichloropropene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
4-Methyl-2-pentanone (MIBK)	170 U	170	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Toluene	34.1 U	34.1	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,3-Dichloropropene	17.0 U	17.0	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE



SGS Ref.# 1051337006  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-3 S-18  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 11:36  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	3190	170	ug/Kg	SW8260B	A		03/13/05	03/17/05	TJE
1,3-Dichloropropane	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Hexanone	170 U	170	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Dibromochloromethane	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,1,2-Tetrachloroethane	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dibromoethane	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Chlorobenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Ethylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
P & M -Xylene	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
o-Xylene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Styrene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromoform	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Isopropylbenzene (Cumene)	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Bromobenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,3-Trichloropropane	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,1,2,2-Tetrachloroethane	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
n-Propylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
2-Chlorotoluene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
4-Chlorotoluene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,3,5-Trimethylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
tert-Butylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,4-Trimethylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
sec-Butylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,3-Dichlorobenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
4-Isopropyltoluene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,4-Dichlorobenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dichlorobenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
n-Butylbenzene	17.0 U	17.0	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2-Dibromo-3-chloropropane	68.1 U	68.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,4-Trichlorobenzene	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Hexachlorobutadiene	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Naphthalene	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
1,2,3-Trichlorobenzene	34.1 U	34.1	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE
Methyl-t-butyl ether	27.2 U	27.2	ug/Kg	SW8260B	A		03/13/05	03/15/05	TJE



SGS Ref.# 1051337006  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-3 S-18  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 11:36  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

**Surrogates**

Dibromofluoromethane <surr>	103	%	SW8260B	A	83-119	03/13/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	110	%	SW8260B	A	83-122	03/13/05	03/15/05	TJE
Toluene-d8 <surr>	102	%	SW8260B	A	87-115	03/13/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	80.5	%	SW8260B	A	46-133	03/13/05	03/15/05	TJE

**Solids**

Total Solids	81.6	%	SM20 2540G	B	03/15/05	JC
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SGS Ref.# 1051337007  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-4 S-4  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 13:59  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chloromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Vinyl chloride	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromomethane	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chloroethane	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Trichlorofluoromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1-Dichloroethene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Acetone	144 U	144	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Carbon disulfide	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Methylene chloride	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
trans-1,2-Dichloroethene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Butanone (MEK)	144 U	144	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2,2-Dichloropropane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
cis-1,2-Dichloroethene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,1-Trichloroethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1-Dichloroethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromochloromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chloroform	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Carbon tetrachloride	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Benzene	7.46 U	7.46	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dichloroethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1-Dichloropropene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Trichloroethene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dichloropropane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Dibromomethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromodichloromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Chloroethyl Vinyl Ether	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,2-Trichloroethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
cis-1,3-Dichloropropene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Methyl-2-pentanone (MIBK)	144 U	144	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Toluene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
trans-1,3-Dichloropropene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		



SGS Ref.# 1051337007  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-4 S-4  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/13/2005 13:59  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	11100	359	ug/Kg	SW8260B	A	03/13/05 03/17/05	TJE		
1,3-Dichloropropane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Hexanone	144 U	144	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Dibromochloromethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromoethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,1,2-Tetrachloroethane	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chlorobenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Ethylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
P & M -Xylene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
o-Xylene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Styrene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromoform	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Isopropylbenzene (Cumene)	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromobenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichloropropane	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Propylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,2,2-Tetrachloroethane	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Chlorotoluene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Chlorotoluene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3,5-Trimethylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
tert-Butylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trimethylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
sec-Butylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3-Dichlorobenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Isopropyltoluene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,4-Dichlorobenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dichlorobenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Butylbenzene	14.4 U	14.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromo-3-chloropropane	57.4 U	57.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trichlorobenzene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Hexachlorobutadiene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Naphthalene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Methyl-t-butyl ether	23.0 U	23.0	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichlorobenzene	28.7 U	28.7	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		

**SGS**

SGS Ref.# 1051337007  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-4 S-4  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 13:59  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy****Surrogates**

Dibromofluoromethane <surr>	111	%	SW8260B	A	83-119	03/13/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	115	%	SW8260B	A	83-122	03/13/05	03/15/05	TJE
Toluene-d8 <surr>	104	%	SW8260B	A	87-115	03/13/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	90.2	%	SW8260B	A	46-133	03/13/05	03/15/05	TJE

**Solids**

Total Solids	97.8	%	SM20 2540G	B		03/15/05	JC
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SGS Ref.# 1051337008  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-4 S-13  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/13/2005 15:10  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy

Dichlorodifluoromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Vinyl chloride	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromomethane	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroethane	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichlorofluoromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Acetone	226 U	226	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon disulfide	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Methylene chloride	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,2-Dichloroethene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Butanone (MEK)	226 U	226	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2,2-Dichloropropane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloroethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,2-Dichloroethene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,1-Trichloroethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromochloromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Chloroform	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Carbon tetrachloride	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Benzene	11.8 U	11.8	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1-Dichloropropene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloroethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Trichloroethene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,2-Dichloropropane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Dibromomethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Bromodichloromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
2-Chloroethyl Vinyl Ether	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
1,1,2-Trichloroethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
cis-1,3-Dichloropropene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
4-Methyl-2-pentanone (MIBK)	226 U	226	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
Toluene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE
trans-1,3-Dichloropropene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05	03/15/05	TJE



SGS Ref.# 1051337008  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-4 S-13  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/13/2005 15:10  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	2130	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3-Dichloropropane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Hexanone	226 U	226	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Dibromochloromethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromoethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,1,2-Tetrachloroethane	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Chlorobenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Ethylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
P & M -Xylene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
o-Xylene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Styrene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromoform	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Isopropylbenzene (Cumene)	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Bromobenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichloropropane	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Propylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,1,2,2-Tetrachloroethane	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
2-Chlorotoluene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Chlorotoluene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3,5-Trimethylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
tert-Butylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trimethylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
sec-Butylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,3-Dichlorobenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
4-Isopropyltoluene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,4-Dichlorobenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dichlorobenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
n-Butylbenzene	22.6 U	22.6	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2-Dibromo-3-chloropropane	90.4 U	90.4	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,4-Trichlorobenzene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Hexachlorobutadiene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Naphthalene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
1,2,3-Trichlorobenzene	45.2 U	45.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		
Methyl-t-butyl ether	36.2 U	36.2	ug/Kg	SW8260B	A	03/13/05 03/15/05	TJE		



SGS Ref.# 1051337008  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID MW-4 S-13  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
Printed Date/Time 03/21/2005 15:52  
Collected Date/Time 03/13/2005 15:10  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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**Volatile Gas Chromatography/Mass Spectroscopy**

**Surrogates**

Dibromofluoromethane <surr>	113	%	SW8260B	A	83-119	03/13/05	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	117	%	SW8260B	A	83-122	03/13/05	03/15/05	TJE
Toluene-d8 <surr>	104	%	SW8260B	A	87-115	03/13/05	03/15/05	TJE
4-Bromofluorobenzene <surr>	94.7	%	SW8260B	A	46-133	03/13/05	03/15/05	TJE

**Solids**

Total Solids	95.4	%	SM20 2540G	B	03/15/05	JC
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# SGS

**SGS Ref.#** 1051337009  
**Client Name** BGES Inc.  
**Project Name#** 4th & Gambell  
**Client Sample ID** Trip Blanks  
**Matrix** Soil/Solid

**All Dates/Times are Alaska Standard Time**  
**Printed Date/Time** 03/21/2005 15:52  
**Collected Date/Time** 03/14/2005 0:00  
**Received Date/Time** 03/14/2005 11:34  
**Technical Director** Stephen C. Ede

**Sample Remarks:**

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Chloromethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Vinyl chloride	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Bromomethane	101 U	101	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Chloroethane	101 U	101	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Trichlorofluoromethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,1-Dichloroethene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Acetone	252 U	252	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Carbon disulfide	101 U	101	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Methylene chloride	101 U	101	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
trans-1,2-Dichloroethene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
2-Butanone (MEK)	252 U	252	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
2,2-Dichloropropane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
cis-1,2-Dichloroethene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,1,1-Trichloroethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,1-Dichloroethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Bromochloromethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Chloroform	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Carbon tetrachloride	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Benzene	13.1 U	13.1	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,1-Dichloropropene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,2-Dichloroethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Trichloroethene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,2-Dichloropropane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Dibromomethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Bromodichloromethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
1,1,2-Trichloroethane	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
2-Chloroethyl Vinyl Ether	101 U	101	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
cis-1,3-Dichloropropene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
4-Methyl-2-pentanone (MIBK)	252 U	252	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
Toluene	50.5 U	50.5	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		
trans-1,3-Dichloropropene	25.2 U	25.2	ug/Kg	SW8260B	A	03/14/05 03/16/05	TJE		



SGS Ref.# 1051337009  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID Trip Blanks  
 Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 03/21/2005 15:52  
 Collected Date/Time 03/14/2005 0:00  
 Received Date/Time 03/14/2005 11:34  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Tetrachloroethene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/17/05	TJE
1,3-Dichloropropane	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
2-Hexanone	252 U	252	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Dibromochloromethane	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,1,1,2-Tetrachloroethane	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2-Dibromoethane	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Chlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Ethylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
P & M -Xylene	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
o-Xylene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Styrene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Bromoform	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Isopropylbenzene (Cumene)	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Bromobenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2,3-Trichloropropane	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
n-Propylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,1,2,2-Tetrachloroethane	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
2-Chlorotoluene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
4-Chlorotoluene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,3,5-Trimethylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
tert-Butylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2,4-Trimethylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
sec-Butylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,3-Dichlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
4-Isopropyltoluene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,4-Dichlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2-Dichlorobenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
n-Butylbenzene	25.2 U	25.2	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2-Dibromo-3-chloropropane	101 U	101	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2,4-Trichlorobenzene	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Hexachlorobutadiene	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Naphthalene	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
1,2,3-Trichlorobenzene	50.5 U	50.5	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE
Methyl-t-butyl ether	40.4 U	40.4	ug/Kg	SW8260B	A		03/14/05	03/16/05	TJE



SGS Ref.# 1051337009  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Client Sample ID Trip Blanks  
Matrix Soil/Solid

All Dates/Times are Alaska Standard Time  
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Collected Date/Time 03/14/2005 0:00  
Received Date/Time 03/14/2005 11:34  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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#### Volatile Gas Chromatography/Mass Spectroscopy

##### Surrogates

Dibromofluoromethane <surr>	108		%	SW8260B	A	83-119	03/14/05	03/16/05	TJE
1,2-Dichloroethane-D4 <surr>	118		%	SW8260B	A	83-122	03/14/05	03/16/05	TJE
Toluene-d8 <surr>	105		%	SW8260B	A	87-115	03/14/05	03/16/05	TJE
4-Bromofluorobenzene <surr>	102		%	SW8260B	A	46-133	03/14/05	03/16/05	TJE

##### Solids

Total Solids	100		%	SM20 2540G	A		03/15/05	JC
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**SGS**

SGS Ref.# 614291 Method Blank  
Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Matrix Soil/Solid

Printed Date/Time 03/24/2005 14:58  
Prep VXX 13340  
Batch Method SW5035  
Date 03/15/2005

## QC results affect the following production samples:

1051337001, 1051337002, 1051337003, 1051337004, 1051337005, 1051337006, 1051337007, 1051337008,  
1051337009

## Sample Remarks:

Parameter	Results	Reporting Limit	Units	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.#	614291	Method Blank			Printed Date/Time	03/24/2005 14:58
Client Name	BGES Inc.				Prep	VXX 13340
Project Name/#	4th & Gambell				Batch Method	SW5035
Matrix	Soil/Solid				Date	03/15/2005
Parameter	Results	Reporting Limit	Units		Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>						
Dichlorodifluoromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Chloromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Vinyl chloride	25.0 U	25.0	ug/Kg		03/15/05	TJE
Bromomethane	100 U	100	ug/Kg		03/15/05	TJE
Chloroethane	100 U	100	ug/Kg		03/15/05	TJE
Trichlorofluoromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1-Dichloroethene	25.0 U	25.0	ug/Kg		03/15/05	TJE
Acetone	250 U	250	ug/Kg		03/15/05	TJE
Carbon disulfide	100 U	100	ug/Kg		03/15/05	TJE
Methylene chloride	100 U	100	ug/Kg		03/15/05	TJE
trans-1,2-Dichloroethene	25.0 U	25.0	ug/Kg		03/15/05	TJE
2-Butanone (MEK)	250 U	250	ug/Kg		03/15/05	TJE
Dichloropropane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1,1-Trichloroethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
cis-1,2-Dichloroethene	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1-Dichloroethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Bromochloromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Chloroform	25.0 U	25.0	ug/Kg		03/15/05	TJE
Carbon tetrachloride	25.0 U	25.0	ug/Kg		03/15/05	TJE
Benzene	13.0 U	13.0	ug/Kg		03/15/05	TJE
1,2-Dichloroethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1-Dichloropropene	25.0 U	25.0	ug/Kg		03/15/05	TJE
Trichloroethene	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,2-Dichloropropane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Dibromomethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Bromodichloromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1,2-Trichloroethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
2-Chloroethyl Vinyl Ether	100 U	100	ug/Kg		03/15/05	TJE
cis-1,3-Dichloropropene	25.0 U	25.0	ug/Kg		03/15/05	TJE
4-Methyl-2-pentanone (MIBK)	250 U	250	ug/Kg		03/15/05	TJE
Toluene	50.0 U	50.0	ug/Kg		03/15/05	TJE
trans-1,3-Dichloropropene	25.0 U	25.0	ug/Kg		03/15/05	TJE
Tetrachloroethene	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,3-Dichloropropane	25.0 U	25.0	ug/Kg		03/15/05	TJE
2-Hexanone	250 U	250	ug/Kg		03/15/05	TJE
Bromochloromethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,1,1,2-Tetrachloroethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
1,2-Dibromoethane	25.0 U	25.0	ug/Kg		03/15/05	TJE
Chlorobenzene	25.0 U	25.0	ug/Kg		03/15/05	TJE



SGS Ref.#	614291	Method	Blank	Printed Date/Time	03/24/2005 14:58
Client Name	BGES Inc.	Prep	Batch	VXX	13340
Project Name/#	4th & Gambell	Method		SW5035	
Matrix	Soil/Solid	Date		03/15/2005	
Parameter	Results	Reporting Limit	Units	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>					
Ethylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
P & M -Xylene	50.0 U	50.0	ug/Kg	03/15/05	TJE
o-Xylene	25.0 U	25.0	ug/Kg	03/15/05	TJE
Styrene	25.0 U	25.0	ug/Kg	03/15/05	TJE
Bromoform	25.0 U	25.0	ug/Kg	03/15/05	TJE
Isopropylbenzene (Cumene)	25.0 U	25.0	ug/Kg	03/15/05	TJE
Bromobenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,2,3-Trichloropropane	50.0 U	50.0	ug/Kg	03/15/05	TJE
1,1,2,2-Tetrachloroethane	50.0 U	50.0	ug/Kg	03/15/05	TJE
n-Propylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
2-Chlorotoluene	25.0 U	25.0	ug/Kg	03/15/05	TJE
4-Chlorotoluene	25.0 U	25.0	ug/Kg	03/15/05	TJE
5-Trimethylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
tert-Butylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,2,4-Trimethylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
sec-Butylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,3-Dichlorobenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
4-Isopropyltoluene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,4-Dichlorobenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,2-Dichlorobenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
n-Butylbenzene	25.0 U	25.0	ug/Kg	03/15/05	TJE
1,2-Dibromo-3-chloropropane	100 U	100	ug/Kg	03/15/05	TJE
1,2,4-Trichlorobenzene	50.0 U	50.0	ug/Kg	03/15/05	TJE
Hexachlorobutadiene	50.0 U	50.0	ug/Kg	03/15/05	TJE
Naphthalene	50.0 U	50.0	ug/Kg	03/15/05	TJE
Methyl-t-butyl ether	40.0 U	40.0	ug/Kg	03/15/05	TJE
1,2,3-Trichlorobenzene	50.0 U	50.0	ug/Kg	03/15/05	TJE
<b>Surrogates</b>					
Dibromofluoromethane <surr>	112	%		03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	116	%		03/15/05	TJE
Toluene-d8 <surr>	103	%		03/15/05	TJE
4-Bromofluorobenzene <surr>	102	%		03/15/05	TJE

Batch VMS 7326  
Method SW8260B  
Instrument HP 5890 Series II MS1 VMA



SGS Ref.# 614292 Lab Control Sample

Printed Date/Time 03/24/2005 14:58  
Prep Batch VXX 13340  
Method SW5035  
Date 03/15/2005

Client Name BGES Inc.  
Project Name/# 4th & Gambell  
Matrix Soil/Solid

QC results affect the following production samples:

1051337001, 1051337002, 1051337003, 1051337004, 1051337005, 1051337006, 1051337007, 1051337008, 1051337009

Sample Remarks:

LCS

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy



SGS Ref.#	614292	Lab Control Sample	Printed Prep	Date/Time	03/24/2005	14:58		
Client Name	BGES Inc.		VXX	Batch	13340			
Project Name/#	4th & Gambell		SW5035	Method				
Matrix	Soil/Solid		Date		03/15/2005			
Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	Spiked Amount	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>								
Dichlorodifluoromethane	LCS	718	96	( 34-136 )		750 ug/Kg	03/15/05	TJE
Chloromethane	LCS	733	98	( 51-129 )		750 ug/Kg	03/15/05	TJE
Vinyl chloride	LCS	755	101	( 58-126 )		750 ug/Kg	03/15/05	TJE
Bromomethane	LCS	792	106	( 45-141 )		750 ug/Kg	03/15/05	TJE
Chloroethane	LCS	822	110	( 41-141 )		750 ug/Kg	03/15/05	TJE
Trichlorofluoromethane	LCS	706	94	( 49-139 )		750 ug/Kg	03/15/05	TJE
1,1-Dichloroethene	LCS	864	115	( 81-136 )		750 ug/Kg	03/15/05	TJE
Acetone	LCS	2270	101	( 40-141 )		2250 ug/Kg	03/15/05	TJE
Carbon disulfide	LCS	1130	100	( 62-145 )		1130 ug/Kg	03/15/05	TJE
Methylene chloride	LCS	824	110	( 63-137 )		750 ug/Kg	03/15/05	TJE
trans-1,2-Dichloroethene	LCS	818	109	( 81-130 )		750 ug/Kg	03/15/05	TJE
2-Butanone (MEK)	LCS	2050	91	( 40-135 )		2250 ug/Kg	03/15/05	TJE
2,2-Dichloropropane	LCS	888	118	( 83-134 )		750 ug/Kg	03/15/05	TJE
1,1,1-Trichloroethane	LCS	819	109	( 83-129 )		750 ug/Kg	03/15/05	TJE
cis-1,2-Dichloroethene	LCS	834	111	( 82-124 )		750 ug/Kg	03/15/05	TJE
1,1-Dichloroethane	LCS	856	114	( 73-125 )		750 ug/Kg	03/15/05	TJE
Bromochloromethane	LCS	827	110	( 71-127 )		750 ug/Kg	03/15/05	TJE
Chloroform	LCS	886	118	( 72-124 )		750 ug/Kg	03/15/05	TJE
Carbon tetrachloride	LCS	822	110	( 67-133 )		750 ug/Kg	03/15/05	TJE
Benzene	LCS	853	114	( 86-122 )		750 ug/Kg	03/15/05	TJE
1,2-Dichloroethane	LCS	895	119	( 82-136 )		750 ug/Kg	03/15/05	TJE



SGS Ref.#	614292	Lab Control Sample			Printed Prep	Date/Time	03/24/2005	14:58
Client Name	BGES Inc.			VXX	Batch	13340		
Project Name/#	4th & Gambell			SW5035	Method			
Matrix	Soil/Solid			03/15/2005	Date			
Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>								
1,1-Dichloropropene	LCS	799	107	( 88-131 )			750 ug/Kg	03/15/05 TJE
Trichloroethene	LCS	850	113	( 77-124 )			750 ug/Kg	03/15/05 TJE
1,2-Dichloropropane	LCS	862	115	( 71-120 )			750 ug/Kg	03/15/05 TJE
Dibromomethane	LCS	842	112	( 79-128 )			750 ug/Kg	03/15/05 TJE
Bromodichloromethane	LCS	888	118	( 79-123 )			750 ug/Kg	03/15/05 TJE
2-Chloroethyl Vinyl Ether	LCS	1280	114	( 32-149 )			1130 ug/Kg	03/15/05 TJE
1,1,2-Trichloroethane	LCS	828	110	( 81-123 )			750 ug/Kg	03/15/05 TJE
cis-1,3-Dichloropropene	LCS	877	117	( 72-126 )			750 ug/Kg	03/15/05 TJE
4-Methyl-2-pentanone (MIBK)	LCS	2830	126	( 80-129 )			2250 ug/Kg	03/15/05 TJE
Toluene	LCS	785	105	( 80-123 )			750 ug/Kg	03/15/05 TJE
trans-1,3-Dichloropropene	LCS	858	114	( 65-125 )			750 ug/Kg	03/15/05 TJE
Tetrachloroethene	LCS	820	109	( 78-135 )			750 ug/Kg	03/15/05 TJE
1,3-Dichloropropane	LCS	849	113	( 76-123 )			750 ug/Kg	03/15/05 TJE
2-Hexanone	LCS	2850	126	( 75-134 )			2250 ug/Kg	03/15/05 TJE
Dibromochloromethane	LCS	851	113	( 78-130 )			750 ug/Kg	03/15/05 TJE
1,1,1,2-Tetrachloroethane	LCS	857	114	( 75-125 )			750 ug/Kg	03/15/05 TJE
1,2-Dibromoethane	LCS	859	115	( 70-124 )			750 ug/Kg	03/15/05 TJE
Chlorobenzene	LCS	795	106	( 86-123 )			750 ug/Kg	03/15/05 TJE
Ethylbenzene	LCS	833	111	( 84-127 )			750 ug/Kg	03/15/05 TJE
o-Xylene	LCS	1620	108	( 88-124 )			1500 ug/Kg	03/15/05 TJE
o-Xylene	LCS	787	105	( 87-123 )			750 ug/Kg	03/15/05 TJE



SGS Ref.#	614292	Lab Control Sample			Printed Prep	Date/Time	03/24/2005	14:58
Client Name	BGES Inc.			Batch	VXX	I3340		
Project Name/#	4th & Gambell			Method	SW5035			
Matrix	Soil/Solid			Date	03/15/2005			
Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>								
Styrene	LCS	825	110	( 87-124 )			750 ug/Kg	03/15/05 TJE
Bromoform	LCS	821	109	( 72-130 )			750 ug/Kg	03/15/05 TJE
Isopropylbenzene (Cumene)	LCS	805	107	( 90-126 )			750 ug/Kg	03/15/05 TJE
Bromobenzene	LCS	771	103	( 66-121 )			750 ug/Kg	03/15/05 TJE
1,2,3-Trichloropropane	LCS	817	109	( 87-128 )			750 ug/Kg	03/15/05 TJE
1,1,2,2-Tetrachloroethane	LCS	819	109	( 77-132 )			750 ug/Kg	03/15/05 TJE
n-Propylbenzene	LCS	791	106	( 88-131 )			750 ug/Kg	03/15/05 TJE
2-Chlorotoluene	LCS	777	104	( 85-128 )			750 ug/Kg	03/15/05 TJE
4-Chlorotoluene	LCS	795	106	( 87-126 )			750 ug/Kg	03/15/05 TJE
1,3,5-Trimethylbenzene	LCS	783	104	( 89-128 )			750 ug/Kg	03/15/05 TJE
tert-Butylbenzene	LCS	795	106	( 89-128 )			750 ug/Kg	03/15/05 TJE
1,2,4-Trimethylbenzene	LCS	759	101	( 88-125 )			750 ug/Kg	03/15/05 TJE
sec-Butylbenzene	LCS	837	112	( 90-132 )			750 ug/Kg	03/15/05 TJE
1,3-Dichlorobenzene	LCS	788	105	( 87-121 )			750 ug/Kg	03/15/05 TJE
4-Isopropyltoluene	LCS	787	105	( 91-127 )			750 ug/Kg	03/15/05 TJE
1,4-Dichlorobenzene	LCS	778	104	( 87-125 )			750 ug/Kg	03/15/05 TJE
1,2-Dichlorobenzene	LCS	772	103	( 85-119 )			750 ug/Kg	03/15/05 TJE
n-Butylbenzene	LCS	822	110	( 88-130 )			750 ug/Kg	03/15/05 TJE
1,2-Dibromo-3-chloropropane	LCS	814	108	( 81-130 )			750 ug/Kg	03/15/05 TJE
1,2,4-Trichlorobenzene	LCS	824	110	( 83-125 )			750 ug/Kg	03/15/05 TJE
Hexachlorobutadiene	LCS	782	104	( 84-134 )			750 ug/Kg	03/15/05 TJE



SGS Ref.#	614292	Lab Control Sample	Printed Date/Time	03/24/2005 14:58				
Client Name	BGES Inc.	Prep	VXX	13340				
Project Name/#	4th & Gambell	Batch	SW5035					
Matrix	Soil/Solid	Method Date	03/15/2005					
Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>								
Naphthalene	LCS	784	105	( 79-122 )		750 ug/Kg	03/15/05	TJE
Methyl-t-butyl ether	LCS	1250	111	( 85-122 )		1130 ug/Kg	03/15/05	TJE
1,2,3-Trichlorobenzene	LCS	803	107	( 79-129 )		750 ug/Kg	03/15/05	TJE
<b>Surrogates</b>								
Dibromofluoromethane <surr>	LCS		111	( 83-119 )		750 ug/Kg	03/15/05	TJE
1,2-Dichloroethane-D4 <surr>	LCS		111	( 83-122 )		750 ug/Kg	03/15/05	TJE
Toluene-d8 <surr>	LCS		104	( 87-115 )		750 ug/Kg	03/15/05	TJE
Chromofluorobenzene <surr>	LCS		102	( 46-133 )		750 ug/Kg	03/15/05	TJE
Batch	VMS	7326						
Method	SW8260B							
Instrument	HP 5890 Series II MS1 VMA							



SGS Ref.#	614326	Matrix Spike	Printed Date/Time	03/24/2005 14:58
	614327	Matrix Spike Duplicate	Prep	VXX 13340
			Batch	Vol. Extraction SW8260 Fiel
			Method	
			Date	03/15/2005
Original	1051054002			
Matrix	Soil/Solid			

QC results affect the following production samples:

1051337001, 1051337002, 1051337003, 1051337004, 1051337005, 1051337006, 1051337007, 1051337008, 1051337009

Sample Remarks:

MS 8260 - MS result for 4-methyl-2-pentanone is biased high and does not meet laboratory QC criteria. This analyte is not detected above the PQL in the original sample.

MSD 8260 - MSD results for 4-methyl-2-pentanone and 2-hexanone are biased high and do not meet laboratory QC criteria. These analytes are not detected above the PQL in the original sample.

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
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Volatile Gas Chromatography/Mass Spectroscopy

SGS Ref.# 614326 Matrix Spike Printed Date/Time 03/24/2005 14:58  
 614327 Matrix Spike Duplicate Prep Batch Method Date VXX 13340 Vol. Extraction SW8260 Fiel  
 03/15/2005

Original 1051054002  
 Matrix Soil/Solid

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>										
Dichlorodifluoromethane	MS	17.3 U	517	100	( 34-136 )			517 ug/Kg	03/16/05	TJE
	MSD		471	91		9	(< 20 )	517 ug/Kg	03/16/05	TJE
Chloromethane	MS	17.3 U	523	101	( 51-129 )			517 ug/Kg	03/16/05	TJE
	MSD		495	96		6	(< 20 )	517 ug/Kg	03/16/05	TJE
Vinyl chloride	MS	17.3 U	487	94	( 58-126 )			517 ug/Kg	03/16/05	TJE
	MSD		446	86		9	(< 20 )	517 ug/Kg	03/16/05	TJE
Bromomethane	MS	69.0 U	562	109	( 45-141 )			517 ug/Kg	03/16/05	TJE
	MSD		546	105		3	(< 20 )	517 ug/Kg	03/16/05	TJE
Chloroethane	MS	69.0 U	594	115	( 41-141 )			517 ug/Kg	03/16/05	TJE
	MSD		567	109		5	(< 20 )	517 ug/Kg	03/16/05	TJE
Trichlorofluoromethane	MS	17.3 U	532	103	( 49-139 )			517 ug/Kg	03/16/05	TJE
	MSD		497	96		7	(< 20 )	517 ug/Kg	03/16/05	TJE
Dichloroethene	MS	17.3 U	599	116	( 81-136 )			517 ug/Kg	03/16/05	TJE
	MSD		573	111		4	(< 20 )	517 ug/Kg	03/16/05	TJE
Acetone	MS	173 U	1600	103	( 40-141 )			1550 ug/Kg	03/16/05	TJE
	MSD		1810	117		12	(< 20 )	1550 ug/Kg	03/16/05	TJE
Carbon disulfide	MS	69.0 U	800	103	( 62-145 )			777 ug/Kg	03/16/05	TJE
	MSD		758	98		5	(< 20 )	777 ug/Kg	03/16/05	TJE
Methylene chloride	MS	69.0 U	593	115	( 63-137 )			517 ug/Kg	03/16/05	TJE
	MSD		572	111		4	(< 20 )	517 ug/Kg	03/16/05	TJE
trans-1,2-Dichloroethene	MS	17.3 U	565	109	( 81-130 )			517 ug/Kg	03/16/05	TJE
	MSD		537	104		5	(< 20 )	517 ug/Kg	03/16/05	TJE
2-Butanone (MEK)	MS	173 U	1540	99	( 40-135 )			1550 ug/Kg	03/16/05	TJE
	MSD		1650	106		7	(< 20 )	1550 ug/Kg	03/16/05	TJE
2,2-Dichloropropane	MS	17.3 U	584	113	( 83-134 )			517 ug/Kg	03/16/05	TJE
	MSD		567	110		3	(< 20 )	517 ug/Kg	03/16/05	TJE
1,1,1-Trichloroethane	MS	17.3 U	590	114	( 83-129 )			517 ug/Kg	03/16/05	TJE
	MSD		575	111		3	(< 20 )	517 ug/Kg	03/16/05	TJE
1,1-Dichloroethane	MS	17.3 U	612	118	( 73-125 )			517 ug/Kg	03/16/05	TJE
	MSD		592	114		3	(< 20 )	517 ug/Kg	03/16/05	TJE
cis-1,2-Dichloroethene	MS	17.3 U	577	111	( 82-124 )			517 ug/Kg	03/16/05	TJE
	MSD		568	110		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Bromochloromethane	MS	17.3 U	582	112	( 71-127 )			517 ug/Kg	03/16/05	TJE
	MSD		577	111		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Chloroform	MS	17.3 U	631	122	( 72-124 )			517 ug/Kg	03/16/05	TJE
	MSD		620	120		2	(< 20 )	517 ug/Kg	03/16/05	TJE
Carbon tetrachloride	MS	17.3 U	574	111	( 67-133 )			517 ug/Kg	03/16/05	TJE
	MSD		553	107		4	(< 20 )	517 ug/Kg	03/16/05	TJE
Benzene	MS	8.98 U	604	117	( 86-122 )			517 ug/Kg	03/16/05	TJE
	MSD		585	113		3	(< 20 )	517 ug/Kg	03/16/05	TJE

SGS Ref.# 614326 Matrix Spike Printed Date/Time 03/24/2005 14:58  
 614327 Matrix Spike Duplicate Prep Batch Method Vol. Extraction SW8260 Fiel  
 Date 03/15/2005

Original 1051054002  
 Matrix Soil/Solid

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>										
1,2-Dichloroethane	MS	17.3 U	659	127	( 82-136 )			517 ug/Kg	03/16/05	TJE
	MSD		633	122		4	(< 20 )	517 ug/Kg	03/16/05	TJE
1,1-Dichloropropene	MS	17.3 U	575	111	( 88-131 )			517 ug/Kg	03/16/05	TJE
	MSD		550	106		4	(< 20 )	517 ug/Kg	03/16/05	TJE
Trichloroethene	MS	17.3 U	609	118	( 77-124 )			517 ug/Kg	03/16/05	TJE
	MSD		588	113		4	(< 20 )	517 ug/Kg	03/16/05	TJE
1,2-Dichloropropane	MS	17.3 U	602	116	( 71-120 )			517 ug/Kg	03/16/05	TJE
	MSD		598	116		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Dibromomethane	MS	17.3 U	601	116	( 79-128 )			517 ug/Kg	03/16/05	TJE
	MSD		597	115		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Bromodichloromethane	MS	17.3 U	631	122	( 79-123 )			517 ug/Kg	03/16/05	TJE
	MSD		610	118		3	(< 20 )	517 ug/Kg	03/16/05	TJE
: chloroethyl Vinyl Ether	MS	69.0 U	893	115	( 32-149 )			777 ug/Kg	03/16/05	TJE
	MSD		899	116		1	(< 20 )	777 ug/Kg	03/16/05	TJE
1,1,2-Trichloroethane	MS	17.3 U	574	111	( 81-123 )			517 ug/Kg	03/16/05	TJE
	MSD		588	114		2	(< 20 )	517 ug/Kg	03/16/05	TJE
cis-1,3-Dichloropropene	MS	17.3 U	609	118	( 72-126 )			517 ug/Kg	03/16/05	TJE
	MSD		588	114		3	(< 20 )	517 ug/Kg	03/16/05	TJE
4-Methyl-2-pentanone (MIBK)	MS	173 U	2070	134*	( 80-129 )			1550 ug/Kg	03/16/05	TJE
	MSD		2050	132*		1	(< 20 )	1550 ug/Kg	03/16/05	TJE
Toluene	MS	34.5 U	551	106	( 80-123 )			517 ug/Kg	03/16/05	TJE
	MSD		550	106		0	(< 20 )	517 ug/Kg	03/16/05	TJE
trans-1,3-Dichloropropene	MS	17.3 U	605	117	( 65-125 )			517 ug/Kg	03/16/05	TJE
	MSD		602	116		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Tetrachloroethene	MS	17.3 U	576	111	( 78-135 )			517 ug/Kg	03/16/05	TJE
	MSD		573	111		0	(< 20 )	517 ug/Kg	03/16/05	TJE
1,3-Dichloropropane	MS	17.3 U	595	115	( 76-123 )			517 ug/Kg	03/16/05	TJE
	MSD		616	119		3	(< 20 )	517 ug/Kg	03/16/05	TJE
2-Hexanone	MS	173 U	2020	130	( 75-134 )			1550 ug/Kg	03/16/05	TJE
	MSD		2180	140*		7	(< 20 )	1550 ug/Kg	03/16/05	TJE
Dibromochloromethane	MS	17.3 U	598	116	( 78-130 )			517 ug/Kg	03/16/05	TJE
	MSD		596	115		0	(< 20 )	517 ug/Kg	03/16/05	TJE
1,1,1,2-Tetrachloroethane	MS	17.3 U	601	116	( 75-125 )			517 ug/Kg	03/16/05	TJE
	MSD		604	117		0	(< 20 )	517 ug/Kg	03/16/05	TJE
1,2-Dibromoethane	MS	17.3 U	608	117	( 70-124 )			517 ug/Kg	03/16/05	TJE
	MSD		627	121		3	(< 20 )	517 ug/Kg	03/16/05	TJE
Chlorobenzene	MS	17.3 U	564	109	( 86-123 )			517 ug/Kg	03/16/05	TJE
	MSD		558	108		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Ethylbenzene	MS	17.3 U	587	113	( 84-127 )			517 ug/Kg	03/16/05	TJE
	MSD		579	112		1	(< 20 )	517 ug/Kg	03/16/05	TJE

SGS Ref.# 614326 Matrix Spike Printed Date/Time 03/24/2005 14:58  
 614327 Matrix Spike Duplicate Prep Batch VXX 13340  
 Method Vol. Extraction SW8260 Field  
 Date 03/15/2005

Original 1051054002  
 Matrix Soil/Solid

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>										
P & M -Xylene	MS	34.5 U	1120	108	( 88-124 )			1040 ug/Kg	03/16/05	TJE
	MSD		1110	107		1	(< 20 )	1040 ug/Kg	03/16/05	TJE
o-Xylene	MS	17.3 U	550	106	( 87-123 )			517 ug/Kg	03/16/05	TJE
	MSD		550	106		0	(< 20 )	517 ug/Kg	03/16/05	TJE
Styrene	MS	17.3 U	583	113	( 87-124 )			517 ug/Kg	03/16/05	TJE
	MSD		579	112		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Bromoform	MS	17.3 U	572	110	( 72-130 )			517 ug/Kg	03/16/05	TJE
	MSD		579	112		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Isopropylbenzene (Cumene)	MS	17.3 U	574	111	( 90-126 )			517 ug/Kg	03/16/05	TJE
	MSD		568	110		1	(< 20 )	517 ug/Kg	03/16/05	TJE
Bromobenzene	MS	17.3 U	542	105	( 66-121 )			517 ug/Kg	03/16/05	TJE
	MSD		535	103		1	(< 20 )	517 ug/Kg	03/16/05	TJE
-Trichloropropane	MS	34.5 U	577	112	( 87-128 )			517 ug/Kg	03/16/05	TJE
	MSD		580	112		0	(< 20 )	517 ug/Kg	03/16/05	TJE
1,1,2,2-Tetrachloroethane	MS	34.5 U	583	113	( 77-132 )			517 ug/Kg	03/16/05	TJE
	MSD		573	111		2	(< 20 )	517 ug/Kg	03/16/05	TJE
n-Propylbenzene	MS	17.3 U	569	110	( 88-131 )			517 ug/Kg	03/16/05	TJE
	MSD		542	105		5	(< 20 )	517 ug/Kg	03/16/05	TJE
2-Chlorotoluene	MS	17.3 U	563	109	( 85-128 )			517 ug/Kg	03/16/05	TJE
	MSD		560	108		1	(< 20 )	517 ug/Kg	03/16/05	TJE
4-Chlorotoluene	MS	17.3 U	565	109	( 87-126 )			517 ug/Kg	03/16/05	TJE
	MSD		539	104		5	(< 20 )	517 ug/Kg	03/16/05	TJE
1,3,5-Trimethylbenzene	MS	17.3 U	547	106	( 89-128 )			517 ug/Kg	03/16/05	TJE
	MSD		532	103		3	(< 20 )	517 ug/Kg	03/16/05	TJE
tert-Butylbenzene	MS	17.3 U	559	108	( 89-128 )			517 ug/Kg	03/16/05	TJE
	MSD		543	105		3	(< 20 )	517 ug/Kg	03/16/05	TJE
1,2,4-Trimethylbenzene	MS	17.3 U	529	102	( 88-125 )			517 ug/Kg	03/16/05	TJE
	MSD		512	99		3	(< 20 )	517 ug/Kg	03/16/05	TJE
sec-Butylbenzene	MS	17.3 U	569	110	( 90-132 )			517 ug/Kg	03/16/05	TJE
	MSD		555	107		3	(< 20 )	517 ug/Kg	03/16/05	TJE
1,3-Dichlorobenzene	MS	17.3 U	545	105	( 87-121 )			517 ug/Kg	03/16/05	TJE
	MSD		530	102		3	(< 20 )	517 ug/Kg	03/16/05	TJE
4-Isopropyltoluene	MS	17.3 U	545	105	( 91-127 )			517 ug/Kg	03/16/05	TJE
	MSD		523	101		4	(< 20 )	517 ug/Kg	03/16/05	TJE
1,4-Dichlorobenzene	MS	17.3 U	539	104	( 87-125 )			517 ug/Kg	03/16/05	TJE
	MSD		519	100		4	(< 20 )	517 ug/Kg	03/16/05	TJE
,,,-Dichlorobenzene	MS	17.3 U	528	102	( 85-119 )			517 ug/Kg	03/16/05	TJE
	MSD		517	100		2	(< 20 )	517 ug/Kg	03/16/05	TJE
n-Butylbenzene	MS	17.3 U	566	109	( 88-130 )			517 ug/Kg	03/16/05	TJE
	MSD		545	105		4	(< 20 )	517 ug/Kg	03/16/05	TJE

SGS Ref.# 614326 Matrix Spike Printed Date/Time 03/24/2005 14:58  
 614327 Matrix Spike Duplicate Prep Batch VXX 13340  
 Method Vol. Extraction SW8260 Fiel  
 Date 03/15/2005

Original 1051054002  
 Matrix Soil/Solid

Parameter	Qualifiers	Original Result	QC Result	Pct Recov	MS/MSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date	Init
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#### Volatile Gas Chromatography/Mass Spectroscopy

1,2-Dibromo-3-chloropropane	MS	69.0 U	578	112	( 81-130 )			517	ug/Kg 03/16/05	TJE
	MSD		585	113		1	(< 20 )	517	ug/Kg 03/16/05	TJE
1,2,4-Trichlorobenzene	MS	34.5 U	523	101	( 83-125 )			517	ug/Kg 03/16/05	TJE
	MSD		533	103		2	(< 20 )	517	ug/Kg 03/16/05	TJE
Hexachlorobutadiene	MS	34.5 U	504	97	( 84-134 )			517	ug/Kg 03/16/05	TJE
	MSD		502	97		0	(< 20 )	517	ug/Kg 03/16/05	TJE
Naphthalene	MS	34.5 U	514	99	( 79-122 )			517	ug/Kg 03/16/05	TJE
	MSD		544	105		6	(< 20 )	517	ug/Kg 03/16/05	TJE
Methyl-t-butyl ether	MS	27.6 U	927	119	( 85-122 )			777	ug/Kg 03/16/05	TJE
	MSD		893	115		4	(< 20 )	777	ug/Kg 03/16/05	TJE
1,2,3-Trichlorobenzene	MS	34.5 U	535	103	( 79-129 )			517	ug/Kg 03/16/05	TJE
	MSD		558	108		4	(< 20 )	517	ug/Kg 03/16/05	TJE
<b>Surrogates</b>										
Dibromofluoromethane <surr>	MS			104	( 83-119 )			404	ug/Kg 03/16/05	TJE
	MSD			111		7		404	ug/Kg 03/16/05	TJE
1,2-Dichloroethane-D4 <surr>	MS			112	( 83-122 )			404	ug/Kg 03/16/05	TJE
	MSD			114		1		404	ug/Kg 03/16/05	TJE
Toluene-d8 <surr>	MS			99	( 87-115 )			404	ug/Kg 03/16/05	TJE
	MSD			106		6		404	ug/Kg 03/16/05	TJE
4-Bromofluorobenzene <surr>	MS			90	( 46-133 )			1080	ug/Kg 03/16/05	TJE
	MSD			95		6		1080	ug/Kg 03/16/05	TJE

Batch VMS 7326

Method SW8260B

Instrument HP 5890 Series II MS1 VMA

**SGS**

SGS Ref.#	614221	Method Blank	Printed Date/Time	03/24/2005 14:58
Client Name	BGES Inc.	Prep	Batch	
Project Name/#	4th & Gambell	Method		
Matrix	Soil/Solid	Date		

QC results affect the following production samples:

1051337001, 1051337002, 1051337003, 1051337004, 1051337005, 1051337006, 1051337007, 1051337008,  
1051337009

Sample Remarks:

Parameter	Results	Reporting Limit	Units	Analysis Date	Init
<b>Solids</b>					
Total Solids	100		%	03/15/05	JC
Batch	SPT	5946			
Method	SM20	2540G			
Instrument					

SGS Ref.#	614222	Duplicate	Printed Date/Time	03/24/2005 14:58
Client Name	BGES Inc.		Prep	Batch
Project Name/#	4th & Gambell		Method	
Original Matrix	1051337001 Soil/Solid		Date	

QC results affect the following production samples:

1051337001, 1051337002, 1051337003, 1051337004, 1051337005, 1051337006, 1051337007, 1051337008, 1051337009

Sample Remarks:

Parameter	Original Result	QC Result	Units	RPD	RPD Limits	Analysis Date	Init
<b>Solids</b>							
Total Solids		96.7	96.4	%	0	(< 5 )	03/15/05 JC
Batch	SPT	5946					
Method	SM20	2540G					
Instrument							



**SGS Environmental Services Inc.  
Alaska Division  
Level 2 Laboratory Data Report**

Project: 4th & Gambell

Client: BGES Inc.

SGS Work Order: 1051802

Released by: (Signature) Jeanne Poston  
(Printed Name) Jeanne Poston  
(Title) Asst Tech Dir /PM  
(Date) 4-20-05

**Contents:**

Case Narrative  
Chain of Custody/Sample Rec Form  
Final Report Page  
Quality Control Summary Forms

**Note:**

Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.

This report contains a total number of 32 pages.

## Case Narrative

**Customer:** BGESINC

**BGES Inc.**

**Project:** 1051802

**4th & Gambell**

### **620146 MB**

8260 - MB result for 1,2,3-trichlorobenzene is greater than one half the PQL. This analyte is not detected above the PQL in any of the associated samples.

### **620148 LCSD**

8260 - LCSD RPD's for vinyl chloride, bromomethane, and chloroethane do not meet laboratory QC criteria. These analytes are not detected above the PQL in any of the associated samples.

### **620156 CCV**

8260 - CCV result for dichlorodifluoromethane is biased low and does not meet laboratory QC criteria. The PQL for this analyte is considered estimated in the associated samples.

8260 - CCV result for acetone is biased high and does not meet laboratory QC criteria. This analyte is not detected above the PQL in any of the associated samples.

### **620158 CCV**

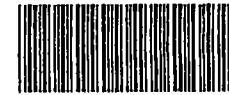
8260 - CCV results for several analytes are biased high and do not meet laboratory QC criteria. These analytes are either not detected above the PQL in the associated samples or not reported in association with this CCV.

8260 - CCV results for dibromofluoromethane(surr) and 1,2-dichloroethane-D4(surr) are biased high and do not meet laboratory QC criteria.

**SGS**

**CHAIN OF CUSTODY RECORD**  
**CT&E Environmental Services Inc.**  
Laboratory Division

1051802



in  
an  
Virginia

www.wattpad.com

036214

SGS

## SAMPLE RECEIPT FORM

SGS WO#:



Yes No NA

- Are samples **RUSH**, priority, or w/n 72 hrs. of hold time? **Due Date:** 4-21-05
- If yes have you done e-mail notification?
- Are samples within 24 hrs. of hold time or due date?
- If yes, have you spoken with Supervisor?
- Archiving bottles- if req., are they properly marked?
- Are there any problems? PM Notified?
- Were samples preserved correctly and pH verified? *Note: Bubble in VOA (3)C = 1cm*
- If this is for PWS, provide PWSID.
- Will courier charges apply?
- Method of payment?
- Data package required? (Level: 1 / 2 / 3 / 4)  
Notes: \_\_\_\_\_
- Is this a DoD project? (USACE, Navy, AFCEE)

**Received Date:** 4-7-05**Received Time:** 1212Is date/time conversion necessary? AL

# of hours to AK Local Time: \_\_\_\_\_

**Thermometer ID:** 5D

Cooler ID	Temp Blank	Cooler Temp
1	1.8 °C	1.6 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

\*Temperature readings include thermometer correction factors

**Delivery method** (circle all that apply): ClientAlert Courier / UPS / FedEx / USPS /  
AA Goldstreak / NAC / ERA / PenAir / Carlile  
Lynden / SGS / Other: \_\_\_\_\_

Airbill # \_\_\_\_\_

Additional Sample Remarks: (*✓ if applicable*)

- Extra Sample Volume?  
 Limited Sample Volume?  
 Field preserved for volatiles?  
 Field-filtered for dissolved?  
 Lab-filtered for dissolved?  
 Ref Lab required?  
 Foreign Soil?

*This section must be filled if problems are found.*

Yes No Was client notified of problems?

Individual contacted \_\_\_\_\_

Via: Phone / Fax / Email (circle one)

Date/Time \_\_\_\_\_

Reason for contact \_\_\_\_\_

Change Order Required?

SGS Contact \_\_\_\_\_

*This section must be filled out for DoD projects (USACE, Navy, AFCEE)*

Yes	No	Is received temperature 4 + 2°C?	Samples/Analyses Affected
		Exceptions	_____
		Read Screen performed?	Result
		Was there an airbill? <i>(Note # above in the right hand column)</i>	_____
		Was cooler sealed with custody seal? #/where?	_____
		Were seal(s) intact upon arrival?	_____
		Was there a CoC with cooler?	_____
		Was the CoC filled out properly?	_____
		Did the CoC indicate COE / AFCEE / Navy project?	_____
		Did the CoC and samples correspond?	_____
		Were all sample packed to prevent breakage?	Packing material
		Were all samples unbroken and clearly labeled?	_____
		Were all samples sealed in separate plastic bags?	_____
		Were all VOCs free of headspace and/or MeOH preserved?	_____
		Were correct container/sample sizes submitted?	_____
		Is sample condition good?	_____
		Was copy of CoC, SRF, and custody seals given to PM to fax?	_____

Notes: also received bottles for disposal 24x 4oz "sep TW + MeOH"

48x 4oz amber

Completed by (sign):

(print): Jane JohnsonLogin proof (check one):  waived  required performed by: \_\_\_\_\_

1051802



SGS

## SAMPLE RECEIPT FORM (page 2)

SGS WO#:

#	Container ID	Matrix	Test	QC	TB	Container Volume	Container Type						Preservative										
							Other	AG	CG	HDPE	Nalgen	Cubic	Coli	Septa	Other	None	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	MeOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaOH	Other
14 A-C	1	VOC8260				1L		X						X			X						
5 A-C	1	VOC8260	X				12										X			X			

Bottle Totals

15

5

Completed by:

Date: 4-7-05



# Laboratory Analysis Report

200 W. Potter Drive  
Anchorage, AK 99518-1605  
Tel: (907) 562-2343  
Fax: (907) 561-5301  
Web: <http://www.us.sgs.com>

Keith Guyer  
BGES Inc.  
P.O. Box 110126  
Anchorage, AK 99511

Work Order: 1051802  
4th & Gambell  
Client: BGES Inc.  
Report Date: April 19, 2005

Released by:

Shane Poston

Digitally signed by Shane Poston  
DN: CN = Shane Poston, C = US, OU =  
SGS Anchorage, AK  
Date: 2005.04.20 14:11:33 -08'00'

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Control Manual that outlines this program is available at your request. The laboratory ADEC certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS Quality Assurance Program Plan and the National Environmental Laboratory Accreditation Conference.

If you have any questions regarding this report or if we can be of any other assistance, please call your SGS Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

- PQL Practical Quantitation Limit (reporting limit).
- U Indicates the analyte was analyzed for but not detected.
- F Indicates an estimated value that falls below PQL, but is greater than the MDL.
- J The quantitation is an estimation.
- B Indicates the analyte is found in a blank associated with the sample.
- \* The analyte has exceeded allowable regulatory or control limits.
- GT Greater Than
- D The analyte concentration is the result of a dilution.
- LT Less Than
- ! Surrogate out of control limits.
- Q QC parameter out of acceptance range.
- M A matrix effect was present.
- JL The analyte was positively identified, but the quantitation is a low estimation.
- E The analyte result is high outside of calibrated range.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.

SGS Ref.# 1051802001  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-1  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:28  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

## Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl chloride	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromomethane	15.0 U	15.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Trichlorofluoromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methylene chloride	25.0 U	25.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Carbon disulfide	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acetone	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans-1,2-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2,2-Dichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
cis-1,2-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Butanone (MEK)	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromo-chloromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloroform	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,1-Trichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Carbon tetrachloride	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloropropene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Benzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Trichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromomethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromodichloromethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chloroethyl Vinyl Ether	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
cis-1,3-Dichloropropene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Toluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS



SGS Ref.# 1051802001  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-1  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:28  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
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#### Volatile Gas Chromatography/Mass Spectroscopy

trans-1,3-Dichloropropene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2-Trichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Tetrachloroethene	1490	50.0	ug/L	SW8260B	C		04/18/05	04/18/05	VS
1,3-Dichloropropane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromochloromethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromoethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chlorobenzene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2-Tetrachloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Ethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
P & M -Xylene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Styrene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromoform	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Isopropylbenzene (Cumene)	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
o-Xylene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2,2-Tetrachloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Propylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chlorotoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Chlorotoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3,5-Trimethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
tert-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trimethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
sec-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Isopropyltoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,4-Dichlorobenzene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromo-3-chloropropane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS



SGS Ref.# 1051802001  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-1  
Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
Printed Date/Time 04/19/2005 14:37  
Collected Date/Time 04/06/2005 18:28  
Received Date/Time 04/08/2005 8:40  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Hexachlorobutadiene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Naphthalene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Methyl-2-pentanone (MIBK)	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Hexanone	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl-t-butyl ether	25.0 U	25.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1-Chlorohexane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acrylonitrile	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans 1,4-Dichloro-2-Butene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl acetate	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl iodide	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
<b>Surrogates</b>									
Dibromofluoromethane <surr>	111		%	SW8260B	C	85-115	04/18/05	04/19/05	VS
1,2-Dichloroethane-D4 <surr>	114		%	SW8260B	C	72-119	04/18/05	04/19/05	VS
Toluene-d8 <surr>	107		%	SW8260B	C	85-120	04/18/05	04/19/05	VS
4-Bromofluorobenzene <surr>	110		%	SW8260B	C	76-119	04/18/05	04/19/05	VS

SGS Ref.# 1051802002  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-2  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:02  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloromethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Vinyl chloride	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromomethane	6.00 U	6.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloroethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloroethene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Trichlorofluoromethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Methylene chloride	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Carbon disulfide	4.00 U	4.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Acetone	20.0 U	20.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
trans-1,2-Dichloroethene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloroethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2,2-Dichloropropane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
cis-1,2-Dichloroethene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2-Butanone (MEK)	20.0 U	20.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromochloromethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloroform	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1,1-Trichloroethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Carbon tetrachloride	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloropropene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Benzene	0.800 U	0.800	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Trichloroethene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,2-Dichloropropane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Dibromomethane	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromodichloromethane	1.00 U	1.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2-Chloroethyl Vinyl Ether	20.0 U	20.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
cis-1,3-Dichloropropene	1.00 U	1.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Toluene	2.00 U	2.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	



SGS Ref.# 1051802002  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-2  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:02  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
trans-1,3-Dichloropropene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2-Trichloroethane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Tetrachloroethene	70.7	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichloropropane	0.800 U	0.800	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromochloromethane	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromoethane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chlorobenzene	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,1,2-Tetrachloroethane	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Ethylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
P & M -Xylene	4.00 U	4.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Styrene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromoform	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Isopropylbenzene (Cumene)	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromobenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
o-Xylene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2,2-Tetrachloroethane	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichloropropane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Propylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chlorotoluene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Chlorotoluene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3,5-Trimethylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
tert-Butylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trimethylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
sec-Butylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Isopropyltoluene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,4-Dichlorobenzene	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichlorobenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichlorobenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Butylbenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromo-3-chloropropane	4.00 U	4.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trichlorobenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS

SGS Ref.# 1051802002  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-2  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:02  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Hexachlorobutadiene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Naphthalene	4.00 U	4.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichlorobenzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Methyl-2-pentanone (MIBK)	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Hexanone	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl-t-butyl ether	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1-Chlorohexane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloroethane	1.00 U	1.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acrylonitrile	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans 1,4-Dichloro-2-Butene	4.00 U	4.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl acetate	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl iodide	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
<b>Surrogates</b>									
Dibromofluoromethane <surr>	115		%	SW8260B	C	85-115	04/18/05	04/19/05	VS
1,2-Dichloroethane-D4 <surr>	114		%	SW8260B	C	72-119	04/18/05	04/19/05	VS
Toluene-d8 <surr>	105		%	SW8260B	C	85-120	04/18/05	04/19/05	VS
4-Bromofluorobenzene <surr>	105		%	SW8260B	C	76-119	04/18/05	04/19/05	VS

SGS Ref.# 1051802003  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-3  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:39  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

## Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl chloride	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromomethane	15.0 U	15.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Trichlorofluoromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methylene chloride	25.0 U	25.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Carbon disulfide	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acetone	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans-1,2-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2,2-Dichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
cis-1,2-Dichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Butanone (MEK)	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromochloromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chloroform	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,1-Trichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Carbon tetrachloride	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1-Dichloropropene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Benzene	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Trichloroethene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromomethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromodichloromethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chloroethyl Vinyl Ether	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
cis-1,3-Dichloropropene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Toluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS



SGS Ref.# 1051802003  
 Client Name BGES Inc.  
 Project Name# 4th & Gambell  
 Client Sample ID MW-3  
 Matrix Water (Surface, Eff., Ground)

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 Collected Date/Time 04/06/2005 18:39  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
trans-1,3-Dichloropropene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2-Trichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Tetrachloroethene	1790	50.0	ug/L	SW8260B	C		04/18/05	04/18/05	VS
1,3-Dichloropropane	2.00 U	2.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromochloromethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromoethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chlorobenzene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,1,2-Tetrachloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Ethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
P & M -Xylene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Styrene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromoform	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Isopropylbenzene (Cumene)	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
o-Xylene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2,2-Tetrachloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichloropropane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Propylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chlorotoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Chlorotoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3,5-Trimethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
tert-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trimethylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
sec-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Isopropyltoluene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,4-Dichlorobenzene	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Butylbenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromo-3-chloropropane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS

**SGS**

SGS Ref.# 1051802003  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-3  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 18:39  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Hexachlorobutadiene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Naphthalene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Methyl-2-pentanone (MIBK)	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Hexanone	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl-t-butyl ether	25.0 U	25.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1-Chlorohexane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloroethane	2.50 U	2.50	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acrylonitrile	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans 1,4-Dichloro-2-Butene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl acetate	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl iodide	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
<b>Surrogates</b>									
Dibromofluoromethane <surr>	111		%	SW8260B	C	85-115	04/18/05	04/19/05	VS
1,2-Dichloroethane-D4 <surr>	112		%	SW8260B	C	72-119	04/18/05	04/19/05	VS
Toluene-d8 <surr>	107		%	SW8260B	C	85-120	04/18/05	04/19/05	VS
4-Bromofluorobenzene <surr>	107		%	SW8260B	C	76-119	04/18/05	04/19/05	VS

SGS Ref.# 1051802004  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-4  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 19:15  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

## Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloromethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Vinyl chloride	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromomethane	30.0 U	30.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloroethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloroethene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Trichlorofluoromethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Methylene chloride	50.0 U	50.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Carbon disulfide	20.0 U	20.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Acetone	100 U	100	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
trans-1,2-Dichloroethene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloroethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2,2-Dichloropropane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
cis-1,2-Dichloroethene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2-Butanone (MEK)	100 U	100	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromochloromethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Chloroform	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1,1-Trichloroethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Carbon tetrachloride	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,1-Dichloropropene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Benzene	4.00 U	4.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Trichloroethene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
1,2-Dichloropropane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Dibromomethane	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Bromodichloromethane	5.00 U	5.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
2-Chloroethyl Vinyl Ether	100 U	100	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
cis-1,3-Dichloropropene	5.00 U	5.00	ug/L	SW8260B	C	04/18/05 04/19/05		VS	
Toluene	10.0 U	10.0	ug/L	SW8260B	C	04/18/05 04/19/05		VS	

SGS Ref.# 1051802004  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID MW-4  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 19:15  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
trans-1,3-Dichloropropene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2-Trichloroethane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Tetrachloroethene	372	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichloropropane	4.00 U	4.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Dibromochloromethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromoethane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Chlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,1,2-Tetrachloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Ethylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
P & M-Xylene	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Styrene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromoform	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Isopropylbenzene (Cumene)	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Bromobenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
o-Xylene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichloropropane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Propylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Chlorotoluene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,1,2,2-Tetrachloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Chlorotoluene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3,5-Trimethylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
tert-Butylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trimethylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
sec-Butylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Isopropyltoluene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,4-Dichlorobenzene	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichlorobenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,3-Dichlorobenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
n-Butylbenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dibromo-3-chloropropane	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,4-Trichlorobenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS



SGS Ref.# 1051802004  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID MW-4  
Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
Printed Date/Time 04/19/2005 14:37  
Collected Date/Time 04/06/2005 19:15  
Received Date/Time 04/08/2005 8:40  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Hexachlorobutadiene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Naphthalene	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2,3-Trichlorobenzene	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
4-Methyl-2-pentanone (MIBK)	100 U	100	ug/L	SW8260B	C		04/18/05	04/19/05	VS
2-Hexanone	100 U	100	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl-t-butyl ether	50.0 U	50.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1-Chlorohexane	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
1,2-Dichloroethane	5.00 U	5.00	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Acrylonitrile	100 U	100	ug/L	SW8260B	C		04/18/05	04/19/05	VS
trans 1,4-Dichloro-2-Butene	20.0 U	20.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Vinyl acetate	100 U	100	ug/L	SW8260B	C		04/18/05	04/19/05	VS
Methyl iodide	10.0 U	10.0	ug/L	SW8260B	C		04/18/05	04/19/05	VS
<b>Surrogates</b>									
Dibromofluoromethane <surr>	115		%	SW8260B	C	85-115	04/18/05	04/19/05	VS
1,2-Dichloroethane-D4 <surr>	116		%	SW8260B	C	72-119	04/18/05	04/19/05	VS
Toluene-d8 <surr>	106		%	SW8260B	C	85-120	04/18/05	04/19/05	VS
4-Bromofluorobenzene <surr>	111		%	SW8260B	C	76-119	04/18/05	04/19/05	VS

SGS Ref.# 1051802005  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID Trip Blanks  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 19:15  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

## Sample Remarks:

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Dichlorodifluoromethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Chloromethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Vinyl chloride	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Bromomethane	3.00 U	3.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Chloroethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
1,1-Dichloroethene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Trichlorofluoromethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Methylene chloride	5.00 U	5.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Carbon disulfide	2.00 U	2.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Acetone	10.0 U	10.0	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
trans-1,2-Dichloroethene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
1,1-Dichloroethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
2,2-Dichloropropane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
cis-1,2-Dichloroethene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
2-Butanone (MEK)	10.0 U	10.0	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Bromochloromethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Chloroform	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
1,1,1-Trichloroethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Carbon tetrachloride	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
1,1-Dichloropropene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Benzene	0.400 U	0.400	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Trichloroethene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
1,2-Dichloropropane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Dibromomethane	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Bromodichloromethane	0.500 U	0.500	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
2-Chloroethyl Vinyl Ether	10.0 U	10.0	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
cis-1,3-Dichloropropene	0.500 U	0.500	ug/L	SW8260B	B	04/18/05 04/19/05		VS	
Toluene	1.00 U	1.00	ug/L	SW8260B	B	04/18/05 04/19/05		VS	



SGS Ref.# 1051802005  
 Client Name BGES Inc.  
 Project Name/# 4th & Gambell  
 Client Sample ID Trip Blanks  
 Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
 Printed Date/Time 04/19/2005 14:37  
 Collected Date/Time 04/06/2005 19:15  
 Received Date/Time 04/08/2005 8:40  
 Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
trans-1,3-Dichloropropene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,1,2-Trichloroethane	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Tetrachloroethene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,3-Dichloropropane	0.400 U	0.400	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Dibromochloromethane	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2-Dibromoethane	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Chlorobenzene	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,1,1,2-Tetrachloroethane	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Ethylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
P & M -Xylene	2.00 U	2.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Styrene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Bromoform	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Isopropylbenzene (Cumene)	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Bromobenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
o-Xylene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2,3-Trichloropropene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
n-Propylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
2-Chlorotoluene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,1,2,2-Tetrachloroethane	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
4-Chlorotoluene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,3,5-Trimethylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
tert-Butylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2,4-Trimethylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
sec-Butylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
4-Isopropyltoluene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
n-Butylbenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2-Dibromo-3-chloropropane	2.00 U	2.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2,4-Trichlorobenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS



SGS Ref.# 1051802005  
Client Name BGES Inc.  
Project Name# 4th & Gambell  
Client Sample ID Trip Blanks  
Matrix Water (Surface, Eff., Ground)

All Dates/Times are Alaska Standard Time  
Printed Date/Time 04/19/2005 14:37  
Collected Date/Time 04/06/2005 19:15  
Received Date/Time 04/08/2005 8:40  
Technical Director Stephen C. Ede

Parameter	Results	PQL	Units	Method	Container ID	Allowable Limits	Prep Date	Analysis Date	Init
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>									
Hexachlorobutadiene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Naphthalene	2.00 U	2.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2,3-Trichlorobenzene	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0	ug/L	SW8260B	B		04/18/05	04/19/05	VS
2-Hexanone	10.0 U	10.0	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Methyl-t-butyl ether	5.00 U	5.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1-Chlorohexane	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
1,2-Dichloroethane	0.500 U	0.500	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Acrylonitrile	10.0 U	10.0	ug/L	SW8260B	B		04/18/05	04/19/05	VS
trans 1,4-Dichloro-2-Butene	2.00 U	2.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Vinyl acetate	10.0 U	10.0	ug/L	SW8260B	B		04/18/05	04/19/05	VS
Methyl iodide	1.00 U	1.00	ug/L	SW8260B	B		04/18/05	04/19/05	VS
<b>Surrogates</b>									
Dibromofluoromethane <surr>	111		%	SW8260B	B	85-115	04/18/05	04/19/05	VS
1,2-Dichloroethane-D4 <surr>	111		%	SW8260B	B	72-119	04/18/05	04/19/05	VS
Toluene-d8 <surr>	104		%	SW8260B	B	85-120	04/18/05	04/19/05	VS
4-Bromofluorobenzene <surr>	102		%	SW8260B	B	76-119	04/18/05	04/19/05	VS

# SGS

QC Ref. # 620146 Method Blank  
Client Name BGES Inc.  
Project Name /# 4th & Gambell  
Matrix Water (Surface, Eff., Ground)

Printed Date /Time 04/19/2005 14:37  
Prep Batch VXX13457  
Method SW5030B  
Date 04/18/2005

QC results affect the following production samples:

1051802001, 1051802002, 1051802003, 1051802004, 1051802005

Sample Remarks:

8260 - MB result for 1,2,3-trichlorobenzene is greater than one half the PQL. This analyte is not detected above the PQL in any of the associated samples.

Parameter	Results	Reporting/Control Limit	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy



CER Ref. # 620146 Method Blank  
Client Name BGES Inc.  
Project Name / # 4th & Gambell  
Matrix Water (Surface, Eff., Ground)

Printed Date / Time 04/19/2005 14:37  
Prep Batch VXX13457  
Method SW5030B  
Date 04/18/2005

Parameter	Results	Reporting/Control Limit	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Dichlorodifluoromethane	1.00 U	1.00	ug/L	04/18/05
Chloromethane	1.00 U	1.00	ug/L	04/18/05
Vinyl chloride	1.00 U	1.00	ug/L	04/18/05
Bromomethane	3.00 U	3.00	ug/L	04/18/05
Chloroethane	1.00 U	1.00	ug/L	04/18/05
Trichlorofluoromethane	1.00 U	1.00	ug/L	04/18/05
1,1-Dichloroethene	1.00 U	1.00	ug/L	04/18/05
Methylene chloride	5.00 U	5.00	ug/L	04/18/05
Carbon disulfide	2.00 U	2.00	ug/L	04/18/05
Acetone	10.0 U	10.0	ug/L	04/18/05
trans-1,2-Dichloroethene	1.00 U	1.00	ug/L	04/18/05
cis-1,2-Dichloroethane	1.00 U	1.00	ug/L	04/18/05
cis-1,2-Dichloropropane	1.00 U	1.00	ug/L	04/18/05
cis-1,2-Dichloroethene	1.00 U	1.00	ug/L	04/18/05
2-Butanone (MEK)	10.0 U	10.0	ug/L	04/18/05
Bromochloromethane	1.00 U	1.00	ug/L	04/18/05
Chloroform	1.00 U	1.00	ug/L	04/18/05
1,1,1-Trichloroethane	1.00 U	1.00	ug/L	04/18/05
Carbon tetrachloride	1.00 U	1.00	ug/L	04/18/05
1,1-Dichloropropene	1.00 U	1.00	ug/L	04/18/05
Benzene	0.400 U	0.400	ug/L	04/18/05
Trichloroethene	1.00 U	1.00	ug/L	04/18/05
1,2-Dichloropropane	1.00 U	1.00	ug/L	04/18/05
Dibromomethane	1.00 U	1.00	ug/L	04/18/05
Bromodichloromethane	0.500 U	0.500	ug/L	04/18/05
2-Chloroethyl Vinyl Ether	10.0 U	10.0	ug/L	04/18/05
cis-1,3-Dichloropropene	0.500 U	0.500	ug/L	04/18/05
Toluene	1.00 U	1.00	ug/L	04/18/05
trans-1,3-Dichloropropene	1.00 U	1.00	ug/L	04/18/05
1,1,2-Trichloroethane	1.00 U	1.00	ug/L	04/18/05
Tetrachloroethene	1.00 U	1.00	ug/L	04/18/05
1,3-Dichloropropane	0.400 U	0.400	ug/L	04/18/05
Dibromochloromethane	0.500 U	0.500	ug/L	04/18/05
1,2-Dibromoethane	1.00 U	1.00	ug/L	04/18/05
Chlorobenzene	0.500 U	0.500	ug/L	04/18/05
1,1,1,2-Tetrachloroethane	0.500 U	0.500	ug/L	04/18/05
Ethylbenzene	1.00 U	1.00	ug/L	04/18/05
P & M-Xylene	2.00 U	2.00	ug/L	04/18/05
Styrene	1.00 U	1.00	ug/L	04/18/05

Case Ref. # 620146 Method Blank Printed Date / Time 04/19/2005 14:37  
 Client Name BGES Inc. Prep Batch VXX13457  
 Project Name / # 4th & Gambell Method SW5030B  
 Matrix Water (Surface, Eff., Ground) Date 04/18/2005

Parameter	Results	Reporting/Control Limit	Units	Analysis Date
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#### Volatile Gas Chromatography/Mass Spectroscopy

Bromoform	1.00 U	1.00	ug/L	04/18/05
Isopropylbenzene (Cumene)	1.00 U	1.00	ug/L	04/18/05
Bromobenzene	1.00 U	1.00	ug/L	04/18/05
o-Xylene	1.00 U	1.00	ug/L	04/18/05
1,1,2,2-Tetrachloroethane	0.500 U	0.500	ug/L	04/18/05
1,2,3-Trichloropropane	1.00 U	1.00	ug/L	04/18/05
n-Propylbenzene	1.00 U	1.00	ug/L	04/18/05
2-Chlorotoluene	1.00 U	1.00	ug/L	04/18/05
4-Chlorotoluene	1.00 U	1.00	ug/L	04/18/05
1,3,5-Trimethylbenzene	1.00 U	1.00	ug/L	04/18/05
tert-Butylbenzene	1.00 U	1.00	ug/L	04/18/05
1,2,4-Trimethylbenzene	1.00 U	1.00	ug/L	04/18/05
sec-Butylbenzene	1.00 U	1.00	ug/L	04/18/05
Isopropyltoluene	1.00 U	1.00	ug/L	04/18/05
1,4-Dichlorobenzene	0.500 U	0.500	ug/L	04/18/05
1,2-Dichlorobenzene	1.00 U	1.00	ug/L	04/18/05
n-Butylbenzene	1.00 U	1.00	ug/L	04/18/05
1,3-Dichlorobenzene	1.00 U	1.00	ug/L	04/18/05
1,2-Dibromo-3-chloropropane	2.00 U	2.00	ug/L	04/18/05
1,2,4-Trichlorobenzene	0.330F	1.00	ug/L	04/18/05
Hexachlorobutadiene	1.00 U	1.00	ug/L	04/18/05
Naphthalene	2.00 U	2.00	ug/L	04/18/05
1,2,3-Trichlorobenzene	0.540F	1.00	ug/L	04/18/05
4-Methyl-2-pentanone (MIBK)	10.0 U	10.0	ug/L	04/18/05
2-Hexanone	10.0 U	10.0	ug/L	04/18/05
Methyl-t-butyl ether	5.00 U	5.00	ug/L	04/18/05
1-Chlorohexane	1.00 U	1.00	ug/L	04/18/05
1,2-Dichloroethane	0.500 U	0.500	ug/L	04/18/05
Acrylonitrile	10.0 U	10.0	ug/L	04/18/05
trans 1,4-Dichloro-2-Butene	2.00 U	2.00	ug/L	04/18/05
Vinyl acetate	10.0 U	10.0	ug/L	04/18/05
Methyl iodide	1.00 U	1.00	ug/L	04/18/05

#### Surrogates

Dibromofluoromethane <surr>	111	85-115	%	04/18/05
1,2-Dichloroethane-D4 <surr>	107	72-119	%	04/18/05
Toluene-d8 <surr>	104	85-120	%	04/18/05
-Bromofluorobenzene <surr>	109	76-119	%	04/18/05

**SGS**

CIE Ref. # 620146 Method Blank  
Client Name BGES Inc.  
Project Name /# 4th & Gambell  
Matrix Water (Surface, Eff., Ground)

Printed Date / Time 04/19/2005 14:37  
Prep Batch VXX13457  
Method SW5030B  
Date 04/18/2005

Parameter	Results	Reporting/Control Limit	Units	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

Batch VMS7376  
Method SW8260B  
Instrument HP 5890 Series II MS5 VLA



SGS Ref.#            620147    Lab Control Sample  
                      620148    Lab Control Sample Duplicate  
Client Name            BGES Inc.  
Project Name/#        4th & Gambell  
Matrix                Water (Surface, Eff., Ground)

Printed Date/Time    04/19/2005 14:37  
Prep                Batch              VXX13457  
                      Method             SW5030B  
                      Date              04/18/2005

QC results affect the following production samples:

1051802001, 1051802002, 1051802003, 1051802004, 1051802005

Sample Remarks:

LCS

LCSD 8260 - LCSD RPD's for vinyl chloride, bromomethane, and chloroethane do not meet laboratory QC criteria. These analytes are not detected above the PQL in any of the associated samples.

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

SGS Ref.#	620147	Lab Control Sample			Printed Date/Time	04/19/2005	14:37
	620148	Lab Control Sample Duplicate			Prep	VXX13457	
Client Name	BGES Inc.				Batch Method	SW5030B	
Project Name/#	4th & Gambell				Date	04/18/2005	
Matrix	Water (Surface, Eff., Ground)						
Parameter		QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>							
Dichlorodifluoromethane	LCS	21.0	70	( 54-131 )			30 ug/L 04/18/2005
	LCSD	24.7	82		16	(< 20 )	30 ug/L 04/18/2005
Chloromethane	LCS	21.8	73	( 56-125 )			30 ug/L 04/18/2005
	LCSD	25.2	84		15	(< 20 )	30 ug/L 04/18/2005
Vinyl chloride	LCS	21.1	70	( 50-134 )			30 ug/L 04/18/2005
	LCSD	26.0	87		21 *	(< 20 )	30 ug/L 04/18/2005
Bromomethane	LCS	19.3	64	( 57-141 )			30 ug/L 04/18/2005
	LCSD	24.0	80		22 *	(< 20 )	30 ug/L 04/18/2005
Chloroethane	LCS	18.4	61	( 60-133 )			30 ug/L 04/18/2005
	LCSD	25.5	85		32 *	(< 20 )	30 ug/L 04/18/2005
1,1-Dichloroethene	LCS	26.8	89	( 70-130 )			30 ug/L 04/18/2005
	LCSD	31.0	103		15	(< 20 )	30 ug/L 04/18/2005
Trichlorofluoromethane	LCS	25.7	86	( 72-129 )			30 ug/L 04/18/2005
	LCSD	27.6	92		7	(< 20 )	30 ug/L 04/18/2005
Methylene chloride	LCS	23.6	79	( 72-120 )			30 ug/L 04/18/2005
	LCSD	26.5	88		11	(< 20 )	30 ug/L 04/18/2005
Carbon disulfide	LCS	30.2	67	( 37-146 )			45 ug/L 04/18/2005
	LCSD	35.2	78		15	(< 20 )	45 ug/L 04/18/2005
Acetone	LCS	106	118	( 51-135 )			90 ug/L 04/18/2005
	LCSD	93.7	104		12	(< 20 )	90 ug/L 04/18/2005
trans-1,2-Dichloroethene	LCS	26.3	88	( 71-127 )			30 ug/L 04/18/2005
	LCSD	27.7	92		5	(< 20 )	30 ug/L 04/18/2005
1,1-Dichloroethane	LCS	26.3	88	( 81-120 )			30 ug/L 04/18/2005
	LCSD	28.1	94		7	(< 20 )	30 ug/L 04/18/2005
2,2-Dichloropropane	LCS	25.7	86	( 77-135 )			30 ug/L 04/18/2005
	LCSD	26.8	89		4	(< 20 )	30 ug/L 04/18/2005
cis-1,2-Dichloroethene	LCS	26.9	90	( 79-120 )			30 ug/L 04/18/2005
	LCSD	28.7	96		7	(< 20 )	30 ug/L 04/18/2005

SGS Ref.# 620147 Lab Control Sample Printed Date/Time 04/19/2005 14:37  
 620148 Lab Control Sample Duplicate Prep Batch VXXI3457  
 Client Name BGES Inc. Method SW5030B  
 Project Name/# 4th & Gambell Date 04/18/2005  
 Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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Volatile Gas Chromatography/Mass Spectroscopy

2-Butanone (MEK)	LCS 95.9	107	( 67-136 )			90 ug/L	04/18/2005
	LCSD 91.3	101		5	(< 20 )	90 ug/L	04/18/2005
Bromochloromethane	LCS 27.9	93	( 76-126 )			30 ug/L	04/18/2005
	LCSD 29.8	99		7	(< 20 )	30 ug/L	04/18/2005
Chloreform	LCS 26.3	88	( 86-115 )			30 ug/L	04/18/2005
	LCSD 28.1	94		7	(< 20 )	30 ug/L	04/18/2005
1,1,1-Trichloroethane	LCS 25.7	86	( 82-120 )			30 ug/L	04/18/2005
	LCSD 27.6	92		7	(< 20 )	30 ug/L	04/18/2005
Carbon tetrachloride	LCS 25.5	85	( 79-132 )			30 ug/L	04/18/2005
	LCSD 27.3	91		7	(< 20 )	30 ug/L	04/18/2005
1,1-Dichloropropene	LCS 28.1	94	( 80-121 )			30 ug/L	04/18/2005
	LCSD 28.2	94		0	(< 20 )	30 ug/L	04/18/2005
Benzene	LCS 27.1	90	( 84-115 )			30 ug/L	04/18/2005
	LCSD 27.6	92		2	(< 20 )	30 ug/L	04/18/2005
Trichloroethene	LCS 27.5	92	( 82-118 )			30 ug/L	04/18/2005
	LCSD 27.9	93		1	(< 20 )	30 ug/L	04/18/2005
1,2-Dichloropropane	LCS 29.0	97	( 88-115 )			30 ug/L	04/18/2005
	LCSD 29.4	98		1	(< 20 )	30 ug/L	04/18/2005
Dibromomethane	LCS 28.9	96	( 86-119 )			30 ug/L	04/18/2005
	LCSD 29.2	97		1	(< 20 )	30 ug/L	04/18/2005
Bromodichloromethane	LCS 27.7	92	( 81-120 )			30 ug/L	04/18/2005
	LCSD 27.8	93		0	(< 20 )	30 ug/L	04/18/2005
2-Chloroethyl Vinyl Ether	LCS 52.5	117	( 63-148 )			45 ug/L	04/18/2005
	LCSD 53.2	118		1	(< 20 )	45 ug/L	04/18/2005
cis-1,3-Dichloropropene	LCS 32.3	108	( 90-126 )			30 ug/L	04/18/2005
	LCSD 31.4	105		3	(< 20 )	30 ug/L	04/18/2005
Toluene	LCS 29.2	97	( 81-115 )			30 ug/L	04/18/2005

SGS Ref.# 620147 Lab Control Sample Printed Date/Time 04/19/2005 14:37  
 620148 Lab Control Sample Duplicate Prep Batch VXX13457  
 Client Name BGES Inc. Method SW5030B  
 Project Name/# 4th & Gambell Date 04/18/2005  
 Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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#### Volatile Gas Chromatography/Mass Spectroscopy

	LCSD	28.6	95	2	(< 20)	30 ug/L	04/18/2005
trans-1,3-Dichloropropene	LCS	29.7	99	( 89-125 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.8	96			30 ug/L	04/18/2005
1,1,2-Trichloroethane	LCS	28.5	95	( 86-116 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.3	94			30 ug/L	04/18/2005
Tetrachloroethene	LCS	27.2	91	( 79-117 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	27.0	90			30 ug/L	04/18/2005
1,3-Dichloropropane	LCS	28.1	94	( 86-118 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	27.7	92			30 ug/L	04/18/2005
Dibromochloromethane	LCS	29.2	97	( 88-116 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.8	96			30 ug/L	04/18/2005
1,2-Dibromoethane	LCS	29.0	97	( 86-119 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.9	96			30 ug/L	04/18/2005
Chlorobenzene	LCS	27.9	93	( 88-115 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	27.8	93			30 ug/L	04/18/2005
1,1,1,2-Tetrachloroethane	LCS	27.2	91	( 90-116 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.2	94			30 ug/L	04/18/2005
Ethylbenzene	LCS	28.2	94	( 85-120 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.6	95			30 ug/L	04/18/2005
P & M -Xylene	LCS	56.3	94	( 80-120 )	(< 20 )	60 ug/L	04/18/2005
	LCSD	56.8	95			60 ug/L	04/18/2005
Styrene	LCS	30.0	100	( 84-129 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	30.7	102			30 ug/L	04/18/2005
Bromoform	LCS	28.0	93	( 85-126 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	29.0	97			30 ug/L	04/18/2005
Propylbenzene (Cumene)	LCS	27.6	92	( 80-120 )	(< 20 )	30 ug/L	04/18/2005
	LCSD	28.7	96			30 ug/L	04/18/2005

SGS Ref.# 620147 Lab Control Sample Printed Date/Time 04/19/2005 14:37  
 620148 Lab Control Sample Duplicate Prep Batch Method VXIX13457  
 Client Name BGES Inc. SW5030B  
 Project Name/# 4th & Gambell Date 04/18/2005  
 Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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#### Volatile Gas Chromatography/Mass Spectroscopy

Bromobenzene	LCS 31.6	105	( 87-115 )			30 ug/L	04/18/2005
	LCSD 29.7	99		6	(< 20 )	30 ug/L	04/18/2005
o-Xylene	LCS 27.6	92	( 80-120 )			30 ug/L	04/18/2005
	LCSD 28.6	95		3	(< 20 )	30 ug/L	04/18/2005
1,2,3-Trichloropropane	LCS 33.2	111	( 86-118 )			30 ug/L	04/18/2005
	LCSD 31.7	106		5	(< 20 )	30 ug/L	04/18/2005
n-Propylbenzene	LCS 31.7	106	( 87-123 )			30 ug/L	04/18/2005
	LCSD 30.0	100		5	(< 20 )	30 ug/L	04/18/2005
2-Chlorotoluene	LCS 31.5	105	( 85-121 )			30 ug/L	04/18/2005
	LCSD 29.8	99		6	(< 20 )	30 ug/L	04/18/2005
1,1,2,2-Tetrachloroethane	LCS 32.7	109	( 80-123 )			30 ug/L	04/18/2005
	LCSD 30.2	101		8	(< 20 )	30 ug/L	04/18/2005
4-Chlorotoluene	LCS 30.8	103	( 81-126 )			30 ug/L	04/18/2005
	LCSD 29.2	97		5	(< 20 )	30 ug/L	04/18/2005
1,3,5-Trimethylbenzene	LCS 31.9	106	( 87-118 )			30 ug/L	04/18/2005
	LCSD 30.6	102		4	(< 20 )	30 ug/L	04/18/2005
tert-Butylbenzene	LCS 34.4	115	( 86-121 )			30 ug/L	04/18/2005
	LCSD 31.1	104		10	(< 20 )	30 ug/L	04/18/2005
1,2,4-Trimethylbenzene	LCS 31.0	103	( 87-117 )			30 ug/L	04/18/2005
	LCSD 30.2	101		3	(< 20 )	30 ug/L	04/18/2005
sec-Butylbenzene	LCS 33.6	112	( 88-125 )			30 ug/L	04/18/2005
	LCSD 31.6	105		6	(< 20 )	30 ug/L	04/18/2005
4-Isopropyltoluene	LCS 32.6	109	( 83-119 )			30 ug/L	04/18/2005
	LCSD 31.1	104		5	(< 20 )	30 ug/L	04/18/2005
1,4-Dichlorobenzene	LCS 31.4	105	( 82-121 )			30 ug/L	04/18/2005
	LCSD 30.5	102		3	(< 20 )	30 ug/L	04/18/2005
1,2-Dichlorobenzene	LCS 28.9	96	( 86-114 )			30 ug/L	04/18/2005
	LCSD 28.9	96		0	(< 20 )	30 ug/L	04/18/2005

SGS Ref.# 620147 Lab Control Sample Printed Date/Time 04/19/2005 14:37  
 620148 Lab Control Sample Duplicate Prep Batch VXX13457  
 Client Name BGES Inc. Method SW5030B  
 Project Name# 4th & Gambell Date 04/18/2005  
 Matrix Water (Surface, Eff., Ground)

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limits	Spiked Amount	Analysis Date
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#### Volatile Gas Chromatography/Mass Spectroscopy

1,3-Dichlorobenzene	LCS 30.5	102	( 83-118 )			30 ug/L	04/18/2005
	LCSD 29.7	99		3	(< 20 )	30 ug/L	04/18/2005
n-Butylbenzene	LCS 31.3	104	( 83-130 )			30 ug/L	04/18/2005
	LCSD 30.5	102		3	(< 20 )	30 ug/L	04/18/2005
1,2-Dibromo-3-chloropropane	LCS 28.1	94	( 80-122 )			30 ug/L	04/18/2005
	LCSD 28.8	96		3	(< 20 )	30 ug/L	04/18/2005
1,2,4-Trichlorobenzene	LCS 31.5	105	( 85-120 )			30 ug/L	04/18/2005
	LCSD 28.9	96		9	(< 20 )	30 ug/L	04/18/2005
α-chlorobutadiene	LCS 31.0	103	( 81-126 )			30 ug/L	04/18/2005
	LCSD 30.8	103		1	(< 20 )	30 ug/L	04/18/2005
Naphthalene	LCS 30.1	100	( 82-126 )			30 ug/L	04/18/2005
	LCSD 26.7	89		12	(< 20 )	30 ug/L	04/18/2005
1,2,3-Trichlorobenzene	LCS 33.0	110	( 86-124 )			30 ug/L	04/18/2005
	LCSD 28.2	94		16	(< 20 )	30 ug/L	04/18/2005
4-Methyl-2-pentanone (MIBK)	LCS 92.3	103	( 73-134 )			90 ug/L	04/18/2005
	LCSD 97.4	108		5	(< 20 )	90 ug/L	04/18/2005
2-Hexanone	LCS 90.2	100	( 76-130 )			90 ug/L	04/18/2005
	LCSD 92.8	103		3	(< 20 )	90 ug/L	04/18/2005
Methyl-t-butyl ether	LCS 41.6	93	( 83-119 )			45 ug/L	04/18/2005
	LCSD 46.1	103		10	(< 20 )	45 ug/L	04/18/2005
1-Chlorohexane	LCS 43.5	97	( 75-125 )			45 ug/L	04/18/2005
	LCSD 43.6	97		0	(< 20 )	45 ug/L	04/18/2005
1,2-Dichloroethane	LCS 27.6	92	( 82-119 )			30 ug/L	04/18/2005
	LCSD 27.7	92		0	(< 20 )	30 ug/L	04/18/2005
Acrylonitrile	LCS 45.7	102	( 83-122 )			45 ug/L	04/18/2005
	LCSD 49.9	111		9	(< 20 )	45 ug/L	04/18/2005
trans 1,4-Dichloro-2-Butene	LCS 69.2	154	( 80-171 )			45 ug/L	04/18/2005



SGS Ref.#	620147	Lab Control Sample	Printed Date/Time	04/19/2005	14:37
	620148	Lab Control Sample Duplicate	Prep	VXX13457	
Client Name	BGES Inc.		Batch	SW5030B	
Project Name/#	4th & Gambell		Method		
Matrix	Water (Surface, Eff., Ground)		Date	04/18/2005	

Parameter	QC Results	Pct Recov	LCS/LCSD Limits	RPD	RPD Limit	Spiked Amount	Analysis Date
<b>Volatile Gas Chromatography/Mass Spectroscopy</b>							
	LCSD 65.5	145		6	(< 20 )	45 ug/L	04/18/2005
Vinyl acetate	LCS 29.4	98	( 29-159 )			30 ug/L	04/18/2005
	LCSD 27.9	93		5	(< 20 )	30 ug/L	04/18/2005
Methyl iodide	LCS 37.7	84	( 65-144 )			45 ug/L	04/18/2005
	LCSD 44.1	98		16	(< 20 )	45 ug/L	04/18/2005
<b>Surrogates</b>							
Dibromofluoromethane <surrt>	LCS	106	( 85-115 )			30 ug/L	04/18/2005
	LCSD	110		4		30 ug/L	04/18/2005
<sup>13</sup> -Dichloroethane-D4 <surrt>	LCS	102	( 72-119 )			30 ug/L	04/18/2005
	LCSD	101		1		30 ug/L	04/18/2005
Toluene-d8 <surrt>	LCS	107	( 85-120 )			30 ug/L	04/18/2005
	LCSD	106		1		30 ug/L	04/18/2005
4-Bromofluorobenzene <surrt>	LCS	115	( 76-119 )			30 ug/L	04/18/2005
	LCSD	108		6		30 ug/L	04/18/2005

Batch VMS7376  
Method SW8260B  
Instrument HP 5890 Series II MSS VLA

**APPENDIX E**  
**WATER WELL SURVEY DATA**



Water Resources, Alaska Science Center,  
Anchorage Field Office

## Fax Cover

U.S. Department of the Interior  
U.S. Geological Survey

Date: 4-19-05

# Pages Including This Cover: 3

TO: DGS-INC-BRIMM, BRONSTEN

FAX #: 696-2439

FROM: PAT STRECAKOS

FAX #: 907-786-7136

Confirmation Phone #: 907-786-7126

## Mailing Address:



USGS - WRD  
Anchorage Field Office  
1209 Orca Street  
Anchorage, AK 99501-4829  
<http://ak.water.usgs.gov>

Message: TABLE 5 WELLS WITHIN .25 MILE RADIUS INTERSECTION

4TH AVE. S GRABELL ST.

MAP NE 1/4 SEC OF SEC. 18, T13N R3W W/WELL

LOCATIONS CRUDELY INDICATED

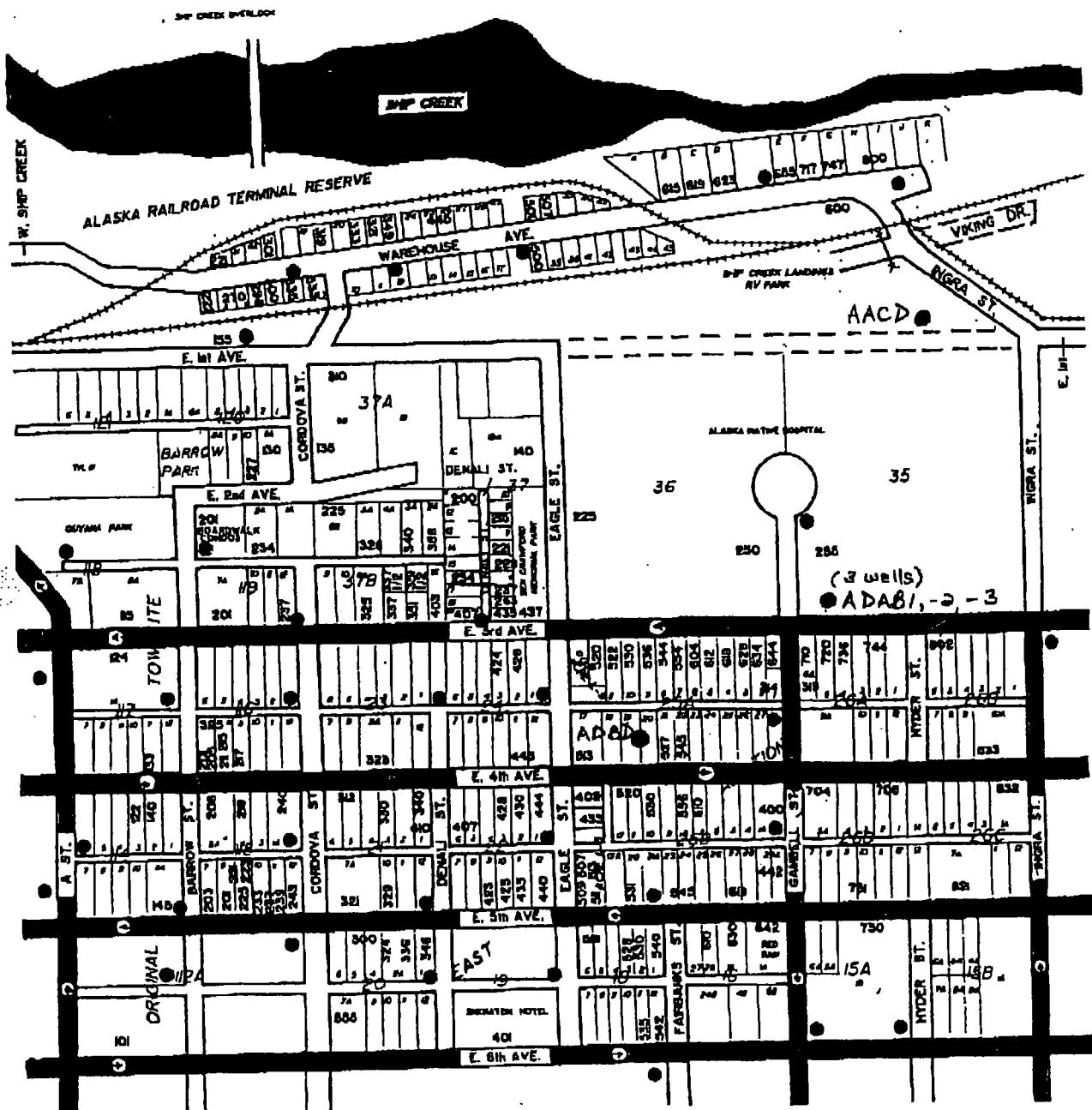
DATE: 04/19/77 NWIS GROUND WATER SITES WITHIN .25 MILE RADIUS INTERSECTION 4TH AVE. AND GAYBELL PAGE 1

LATITUDE (DDMMSS)	LONGITUDE (DDMMSS)	LAT/LONG DATUM (CODE)	LOCAL WELL NUMBER	DATE WELL CONSTRUCTED	DEPTH OF WELL (FEET)	TYPE OF LOG AVAILABLE	
611316	1495216	NAD27	SBC1300318AACD1	007	07-11-61	49.5	DR
611313	1495210	NAD27	SBC1300318ADAB1	006	08-01-46	57.0	DR
611313	1495209	NAD27	SBC1300318ADAB2	006	02-01-46	20.0	DR
611313	1495208	NAD27	SBC01300318ADAB3	006	C1-01-52	139	DR
611309	1495217	NAD27	SBC01300318ADBD1	001	10-01-53	227	DR

SENT BY: US GEOLOGICAL SURVEY - WRD - AF; 907 786 7136;

APR-19-05 4:06PM;

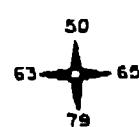
PAGE 2/3



GR. 1231

64

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SEE OVERVIEW MAP "G"

Bates 415

**APPENDIX F**

**DOCUMENTATION OF DISPOSAL OF INVESTIGATIVE-DERIVED WASTE**

**NOT AVAILABLE AT THIS TIME**

**WILL BE PROVIDED WITH FINAL REPORT**